

# MANITOBA INFRASTRUCTURE

# **2018 CVSA INSPECTIONS**

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### **2018 CVSA INSPECTIONS**

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Legend:	

Inspection Categories: Pass

Fail

Out of Service

All - Includes all the above categories

Fail Conditional: A defect that must be repaired before the unit leaves the terminal for it's next trip. Defect Results:

Out of Service: A defect that must be repaired before the unit is operated on a highway.

Includes both defect results

Carrier Jurisdiction is determined by the jurisdiction the vehicle is registered in.



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**Results by Base Jurisdiction** 

Truck	Inspection Result			Percentage	
Jurisdiction	Pass	Fail	oos	Total	(%)
ALABAMA	1	0	0	1	0.02%
ALBERTA	204	102	74	380	5.93%
BRITISH COLUMBIA	49	41	27	117	1.82%
CALIFORNIA	1	3	1	5	0.08%
FLORIDA	1	0	0	1	0.02%
GEORGIA	0	1	1	2	0.03%
IDAHO	0	1	0	1	0.02%
ILLINOIS	5	8	4	17	0.27%
INDIANA	3	2	4	9	0.14%
IOWA	0	1	0	1	0.02%
MAINE	0	0	1	1	0.02%
MANITOBA	2,101	1,555	1,450	5,106	79.62%
MARYLAND	0	0	1	1	0.02%
MASSACHUSETTS	1	1	1	3	0.05%
MICHIGAN	1	0	0	1	0.02%
MINNESOTA	15	19	15	49	0.76%
MISSISSIPPI	1	0	1	2	0.03%
MISSOURI	1	1	0	2	0.03%
MONTANA	0	1	0	1	0.02%
NEBRASKA	0	1	1	2	0.03%
NEVADA	0	0	2	2	0.03%
NEW BRUNSWICK	22	15	5	42	0.65%
NEWFOUNDLAND	0	1	0	1	0.02%
NORTH DAKOTA	25	19	19	63	0.98%
NOVA SCOTIA	2	1	1	4	0.06%
OHIO	1	2	0	3	0.05%
OKLAHOMA	1	1	0	2	0.03%
ONTARIO	143	87	52	282	4.40%
OREGON	0	0	1	1	0.02%
PENNSYLVANIA	1	0	1	2	0.03%
PRINCE EDWARD ISLAND	0	1	0	1	0.02%
QUEBEC	19	11	9	39	0.61%
SASKATCHEWAN	100	103	57	260	4.05%
SOUTH DAKOTA	0	1	0	1	0.02%
TEXAS	0	0	2	2	0.03%
WISCONSIN	3	1	2	6	0.09%
TOTALS	2,701	1,980	1,732	6,413	100%
	42.12%	30.87%	27.01%	100%	100 /0
Percentage(%)	72.12/0	30.07 /0	21.01/0	100%	

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All **Brakes** 35.0% Cargo Tanks Brakes-Windshield Wipers -Coupling Devices Cargo Tanks 1.2% Wheels and Rims --Dangerous Goods Trailer -DriveLine/DriveShaft **Coupling Devices** 0.3% Bodie Fires--Electric Buses **Dangerous Goods** 0.8% -Exhaust -Frame DriveLine/DriveShaft 0.5% -Fuel System **Electric Buses** 0.0% 2.7% Exhaust 0.5% Frame Fuel System 0.4% Lighting Equipment 17.5% Load Securement 8.3% 20.8% Miscellaneous Suspension -Lighting Equipment Steering Mechanism -0.6% Steering Mechanism Miscellaneous -Load Securement Suspension 4.3% Tires 5.3% **Trailer Bodies** 0.3% Wheels and Rims 1.1% Windshield Wipers 0.3% Total: 100.0%

3,501
120
31
80
46
1
273
45
37
1,752
834
2,080
57
434
532
33
110
29

Defect Category: Both

Total Defects: 9,995
Total Reports: 6,413
Defects / Reports: 1.56

Manitoba Infrastructure



Category: All Defect Category: Both

Defect Code	Nefect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	2
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	13
4	PRIMARY ATTACHMENT, CRACKED, LOOSE, WORN, NO SAFELY LOCK, BOLTS MISSING	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	15
6	LEAK, LOCATION	273
7	CROSS MEMBER-BROKEN, SAGGING	45
8	FUEL SYSTEM LEAK, CAP MISSING	32
9	UNSECURED TANK	5
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	1,683
11	PROJECTING LOAD LAMPS, CLEARANCE	69
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	692
13	DUNNAGE, ANCHOR POINTS, FITTINGS	142
14	CHAMBERS, RESERVOIR, COMPRESSOR	210
15	HOSE, LINES, COUPLING, VALVES	381
16	LINING, DRUMS, DISCS	74
17	T.P. VALVE, L.A. WARNING DEVICE	51
18	AUDIBLE AIR LEAK, PUSH ROD	1,163
19	SLACK ADJUSTER, CAM SHAFT	161
20	PARK BRAKE, SPRING BRAKE	162
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	1,153
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	1,133
		┪
23	STEERING WHEEL, COLUMN, GEAR BOX	14
24	FRONT AXLE BEAM, PITMAN ARM	21
25	POWER STEERING, BALL / SOCKET JOINTS	14
26	TIE-RODS, DRAG LINKS, NUTS	4
27	STEERING SYSTEM, C-DOLLY	4
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	280
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	35
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	119
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	10
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	17
33	SIDE PANELS - BAY AREA DAMAGE	6
34	BENT, BROKEN, CRACKED, LOOSE	75
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	35
37	INOPERATIVE, MISSING, DAMAGED	29
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	532
39	DANGEROUS GOODS	80
40	CARGO TANK	120
42	ELECTICAL (BUSES)	1
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	12
53	UNIVERSAL JOINT CONTROL OF THE PROPERTY OF THE	22
54	CENTER BEARING - (CARRIER BEARING)	7
55	DRIVESHAFT TUBE	5
57	LOOSE AND/OR TEMPORARY SEATING	1
99	MISCELLANEOUS	2,079
	Total Defects	9,995

Total Defects: 9,995

Total Reports: 6,413



Manitoba Infrastructure



Category: Pass Defect Category: N/A

Defect Code	Defect Description	Count
99	MISCELLANEOUS	418
	Total Defects:	418
	Total Reports:	2,701
	Defects / Reports:	0.15

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Fail Conditional **Brakes** 42.7% Windshield Wipers --Brakes Wheels and Rims -Cargo Tanks Cargo Tanks 1.1% Trailer -Coupling Devices Bodieires--Dangerous Goods **Coupling Devices** 0.2% -DriveLine/DriveShaft **Dangerous Goods** 0.5% DriveLine/DriveShaft 0.5% **Electric Buses** 0.0% 4.1% Exhaust 0.5% Frame Fuel System 0.4% Lighting Equipment 16.8% Load Securement 2.9% Miscellaneous 18.2% Suspension Steering Mechanism -Steering Mechanism 0.4% Miscellaneous Suspension 5.3% Tires 4.8% **Trailer Bodies** 0.4% -Electric Buses -Exhaust Wheels and Rims 0.8% -Frame Windshield Wipers 0.3% -Fuel System -Lighting Equipment 100.0% Load Securement Total:

Brakes	1,735
Cargo Tanks	45
Coupling Devices	7
Dangerous Goods	20
DriveLine/DriveShaft	21
Electric Buses	1
Exhaust	167
Frame	20
Fuel System	16
Lighting Equipment	683
Load Securement	119
Miscellaneous	738
Steering Mechanism	18
Suspension	214
Tires	194
Trailer Bodies	15
Wheels and Rims	34
Windshield Wipers	12

Defect Category: Fail Conditional

Total Defects: 4,059
Total Reports: 1,980
Defects / Reports: 2.05

Manitoba Infrastructure



Category: Fail Conditional Defect Category: Fail Conditional

Defect Code	Defect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	1
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	5
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	167
7	CROSS MEMBER-BROKEN, SAGGING	20
8	FUEL SYSTEM LEAK, CAP MISSING	11
9	UNSECURED TANK	5
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	654
11	PROJECTING LOAD LAMPS, CLEARANCE	29
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	96
13	DUNNAGE, ANCHOR POINTS, FITTINGS	23
14	CHAMBERS, RESERVOIR, COMPRESSOR	73
15	HOSE, LINES, COUPLING, VALVES	164
16	LINING, DRUMS, DISCS	29
17	T.P. VALVE, L.A. WARNING DEVICE	5
18	AUDIBLE AIR LEAK, PUSH ROD	633
19	SLACK ADJUSTER, CAM SHAFT	72
20	PARK BRAKE, SPRING BRAKE	13
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	741
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	5
23	STEERING WHEEL, COLUMN, GEAR BOX	3
24	FRONT AXLE BEAM, PITMAN ARM	4
25	POWER STEERING, BALL / SOCKET JOINTS	8
26	TIE-RODS, DRAG LINKS, NUTS	1
27	STEERING SYSTEM, C-DOLLY	2
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	139
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	14
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	61
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	5
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	7
33	SIDE PANELS - BAY AREA DAMAGE	3
34	BENT, BROKEN, CRACKED, LOOSE	28
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	6
37	INOPERATIVE, MISSING, DAMAGED	12
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	194
39	DANGEROUS GOODS	20
40	CARGO TANK	45
42	ELECTICAL (BUSES)	1
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	4
53	UNIVERSAL JOINT	10
54	CENTER BEARING - (CARRIER BEARING)	4
55	DRIVESHAFT TUBE	3
57	LOOSE AND/OR TEMPORARY SEATING	1
99	MISCELLANEOUS	737

Total Defects: 4,059

Total Reports: 1,980

### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service Cargo Tanks Brakes-**Brakes** 32.0% Windshield Wipers -Coupling Devices Wheels and Rims --Dangerous Goods Cargo Tanks 1.4% Trailer -DriveLine/DriveShaft **Coupling Devices** 0.4% **Bodies** -Exhaust -Frame **Dangerous Goods** 1.1% -Fuel System DriveLine/DriveShaft 0.5% 1.9% **Exhaust** ☐ Frame 0.5% 0.4% Fuel System Lighting Equipment 19.4% Load Securement 13.0% 16.7% Miscellaneous -Lighting Equipment 0.7% Steering Mechanism -Load Securement 4.0% Suspension 6.1% **Tires Trailer Bodies** 0.3% 1.4% Wheels and Rims Tires 0.3% Windshield Wipers Suspension Steering Mechanism Total: 100.0% Miscellaneous

Brakes	1,766
Cargo Tanks	75
Coupling Devices	24
Dangerous Goods	60
DriveLine/DriveShaft	25
Exhaust	106
Frame	25
Fuel System	21
Lighting Equipment	1,069
Load Securement	715
Miscellaneous	924
Steering Mechanism	39
Suspension	220
Tires	338
Trailer Bodies	18
Wheels and Rims	76
Windshield Wipers	17

Defect Category: Both

Total Defects: 5,518
Total Reports: 1,732
Defects / Reports: 3.19

Manitoba Infrastructure



Category: Out of Service Defect Category: Both

Defect Code	Defect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	1
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	8
4	PRIMARY ATTACHMENT, CRACKED, LOOSE, WORN, NO SAFELY LOCK, BOLTS MISSING	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	14
6	LEAK, LOCATION	106
7	CROSS MEMBER-BROKEN, SAGGING	25
8	FUEL SYSTEM LEAK, CAP MISSING	21
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	1,029
11	PROJECTING LOAD LAMPS, CLEARANCE	40
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	596
13	DUNNAGE, ANCHOR POINTS, FITTINGS	119
14	CHAMBERS, RESERVOIR, COMPRESSOR	137
15	HOSE, LINES, COUPLING, VALVES	217
16	LINING, DRUMS, DISCS	45
17	T.P. VALVE, L.A. WARNING DEVICE	46
18	AUDIBLE AIR LEAK, PUSH ROD	530
19	SLACK ADJUSTER, CAM SHAFT	89
20	PARK BRAKE, SPRING BRAKE	149
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	412
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	141
23	STEERING WHEEL, COLUMN, GEAR BOX	11
24	FRONT AXLE BEAM, PITMAN ARM	17
25	POWER STEERING, BALL / SOCKET JOINTS	6
26	TIE-RODS, DRAG LINKS, NUTS	3
27	STEERING SYSTEM, C-DOLLY	2
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	141
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	21
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	58
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	5
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	10
33	SIDE PANELS - BAY AREA DAMAGE	3
34	BENT, BROKEN, CRACKED, LOOSE	47
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	29
37	INOPERATIVE, MISSING, DAMAGED	17
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	338
39	DANGEROUS GOODS	60
40	CARGO TANK	75
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	8
53	UNIVERSAL JOINT	12
54	CENTER BEARING - (CARRIER BEARING)	3
55	DRIVESHAFT TUBE	2
99	MISCELLANEOUS	924

Total Defects: 5,518

Total Reports: 1,732

### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service Cargo Tanks Brakes-Windshield Wipers -Coupling Devices **Brakes** 31.5% Wheels and Rims --Dangerous Goods 2.1% Trailer -DriveLine/DriveShaft Cargo Tanks **Bodies** -Exhaust 0.5% **Coupling Devices** -Frame -Fuel System **Dangerous Goods** 1.8% DriveLine/DriveShaft 0.4% Exhaust 0.1% 0.2% Frame Fuel System 0.5% 20.4% Lighting Equipment **Load Securement** 27.1% 1.1% Steering Mechanism Suspension 3.5% -Lighting Equipment 8.8% **Tires** 0.2% **Trailer Bodies** 1.6% Wheels and Rims 0.1% Tires-Windshield Wipers Suspension 100.0% Total: Steering Mechanism Load Securement

Brakes	756
Cargo Tanks	51
Coupling Devices	13
Dangerous Goods	44
DriveLine/DriveShaft	10
Exhaust	2
Frame	5
Fuel System	13
Lighting Equipment	488
Load Securement	650
Steering Mechanism	26
Suspension	83
Tires	212
Trailer Bodies	5
Wheels and Rims	38
Windshield Wipers	2

Defect Category: Out of Service

Total Defects: 2,398
Total Reports: 1,732
Defects / Reports: 1.38

Manitoba Infrastructure



Category: Out of Service Defect Category: Out of Service

Defect Code	Defect Description	Count
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	1
4	PRIMARY ATTACHMENT, CRACKED, LOOSE, WORN, NO SAFELY LOCK, BOLTS MISSING	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	11
6	LEAK, LOCATION	2
7	CROSS MEMBER-BROKEN, SAGGING	5
8	FUEL SYSTEM LEAK, CAP MISSING	13
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	477
11	PROJECTING LOAD LAMPS, CLEARANCE	11
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	547
13	DUNNAGE, ANCHOR POINTS, FITTINGS	103
14	CHAMBERS, RESERVOIR, COMPRESSOR	64
15	HOSE, LINES, COUPLING, VALVES	138
16	LINING, DRUMS, DISCS	19
17	T.P. VALVE, L.A. WARNING DEVICE	42
18	AUDIBLE AIR LEAK, PUSH ROD	182
19	SLACK ADJUSTER, CAM SHAFT	17
20	PARK BRAKE, SPRING BRAKE	144
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	15
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	135
23	STEERING WHEEL, COLUMN, GEAR BOX	3
24	FRONT AXLE BEAM, PITMAN ARM	17
25	POWER STEERING, BALL / SOCKET JOINTS	3
26	TIE-RODS, DRAG LINKS, NUTS	1
27	STEERING SYSTEM, C-DOLLY	2
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	38
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	14
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	31
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	3
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	2
34	BENT, BROKEN, CRACKED, LOOSE	27
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	11
37	INOPERATIVE, MISSING, DAMAGED	2
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	212
39	DANGEROUS GOODS	44
40	CARGO TANK	51
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	1
53	UNIVERSAL JOINT	8
54	CENTER BEARING - (CARRIER BEARING)	1

Total Defects: 2,398
Total Reports: 1,732

### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service Cargo Tanks Brakes-**Brakes** 32.4% Windshield Wipers -Coupling Devices Wheels and Rims --Dangerous Goods Cargo Tanks 0.8% Trailer -DriveLine/DriveShaft **Coupling Devices** 0.4% Bodie ires--Exhaust -Frame **Dangerous Goods** 0.5% -Fuel System DriveLine/DriveShaft 0.5% 3.3% **Exhaust** ☐ Frame 0.6% 0.3% Fuel System Lighting Equipment 18.6% 2.1% Load Securement 29.6% Miscellaneous Suspension Steering Mechanism --Lighting Equipment Steering Mechanism 0.4% Miscellaneous -Load Securement Suspension 4.4% **Tires** 4.0% **Trailer Bodies** 0.4% Wheels and Rims 1.2% 0.5% Windshield Wipers Total: 100.0%

Brakes	1,010
Cargo Tanks	24
Coupling Devices	11
Dangerous Goods	16
DriveLine/DriveShaft	15
Exhaust	104
Frame	20
Fuel System	8
Lighting Equipment	581
Load Securement	65
Miscellaneous	924
Steering Mechanism	13
Suspension	137
Tires	126
Trailer Bodies	13
Wheels and Rims	38
Windshield Wipers	15

Defect Category: Fail Conditional

Total Defects: 3,120
Total Reports: 1,732
Defects / Reports: 1.80

Manitoba Infrastructure



Category: Out of Service Defect Category: Fail Conditional

Defect Code	Nefect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	1
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	7
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	3
6	LEAK, LOCATION	104
7	CROSS MEMBER-BROKEN, SAGGING	20
8	FUEL SYSTEM LEAK, CAP MISSING	8
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	552
11	PROJECTING LOAD LAMPS, CLEARANCE	29
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	49
13	DUNNAGE, ANCHOR POINTS, FITTINGS	16
14	CHAMBERS, RESERVOIR, COMPRESSOR	73
15	HOSE, LINES, COUPLING, VALVES	79
16	LINING, DRUMS, DISCS	26
17	T.P. VALVE, L.A. WARNING DEVICE	4
18	AUDIBLE AIR LEAK, PUSH ROD	348
19	SLACK ADJUSTER, CAM SHAFT	72
20	PARK BRAKE, SPRING BRAKE	5
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	397
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	6
23	STEERING WHEEL, COLUMN, GEAR BOX	8
25	POWER STEERING, BALL / SOCKET JOINTS	3
26	TIE-RODS, DRAG LINKS, NUTS	2
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	103
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	7
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	27
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	2
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	8
33	SIDE PANELS - BAY AREA DAMAGE	3
34	BENT, BROKEN, CRACKED, LOOSE	20
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	18
37	INOPERATIVE, MISSING, DAMAGED	15
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	126
39	DANGEROUS GOODS	16
40	CARGO TANK	24
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	7
53	UNIVERSAL JOINT	4
54	CENTER BEARING - (CARRIER BEARING)	2
55	DRIVESHAFT TUBE	2
99	MISCELLANEOUS	924

Total Defects: 3,120

Total Reports: 1,732



# **2018 CVSA INSPECTIONS**

**Inspection Results For Manitoba Carriers** 

Category	Inspection Result			Total
	Pass	Fail	Out of Service	
Reports	2,101	1,555	1,450	5,106
Percentage of Reports	41.15%	30.45%	28.40%	100%
Defects	338	3,215	4,715	8,268
Defects per Report	0.16	2.07	3.25	1.62

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All **Brakes** 33.4% Cargo Tanks Brakes-Windshield Wipers --Coupling Devices Cargo Tanks 1.0% Wheels and Rims --Dangerous Goods Trailer -DriveLine/DriveShaft **Coupling Devices** 0.3% Bodie Fires--Electric Buses **Dangerous Goods** 0.8% -Exhaust -Frame DriveLine/DriveShaft 0.5% -Fuel System **Electric Buses** 0.0% 2.9% Exhaust 0.5% Frame Fuel System 0.4% Lighting Equipment 18.3% Load Securement 8.6% 21.1% Miscellaneous Suspension -Lighting Equipment Steering Mechanism -0.6% Steering Mechanism Miscellaneous -Load Securement Suspension 4.1% Tires 5.7% **Trailer Bodies** 0.4% Wheels and Rims 1.1% Windshield Wipers 0.3% Total: 100.0%

Brakes	2,764
Cargo Tanks	86
Coupling Devices	28
Dangerous Goods	64
DriveLine/DriveShaft	42
Electric Buses	1
Exhaust	237
Frame	40
Fuel System	32
Lighting Equipment	1,511
Load Securement	711
Miscellaneous	1,744
Steering Mechanism	50
Suspension	341
Tires	468
Trailer Bodies	30
Wheels and Rims	92
Windshield Wipers	27

Defect Category: Both

Total Defects: 8,268
Total Reports: 5,106
Defects / Reports: 1.62

**Carrier Jurisdiction - Manitoba** 

Manitoba Infrastructure



Category: All Defect Category: Both

Defect Code	Defect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	1
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	12
4	PRIMARY ATTACHMENT, CRACKED, LOOSE, WORN, NO SAFELY LOCK, BOLTS MISSING	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	14
6	LEAK, LOCATION	237
7	CROSS MEMBER-BROKEN, SAGGING	40
8	FUEL SYSTEM LEAK, CAP MISSING	27
9	UNSECURED TANK	5
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	1,458
11	PROJECTING LOAD LAMPS, CLEARANCE	53
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	591
13	DUNNAGE, ANCHOR POINTS, FITTINGS	120
14	CHAMBERS, RESERVOIR, COMPRESSOR	178
15	HOSE, LINES, COUPLING, VALVES	279
16	LINING, DRUMS, DISCS	65
17	T.P. VALVE, L.A. WARNING DEVICE	44
18	AUDIBLE AIR LEAK, PUSH ROD	930
19	SLACK ADJUSTER, CAM SHAFT	126
20	PARK BRAKE, SPRING BRAKE	147
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	861
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	134
23	STEERING WHEEL, COLUMN, GEAR BOX	9
24	FRONT AXLE BEAM, PITMAN ARM	21
25	POWER STEERING, BALL / SOCKET JOINTS	13
26	TIE-RODS, DRAG LINKS, NUTS	4
27	STEERING SYSTEM, C-DOLLY	3
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	226
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	30
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	85
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	10
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	16
33	SIDE PANELS - BAY AREA DAMAGE	4
34	BENT, BROKEN, CRACKED, LOOSE	61
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	31
37	INOPERATIVE, MISSING, DAMAGED	27
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	468
39	DANGEROUS GOODS	64
40	CARGO TANK	86
42	ELECTICAL (BUSES)	1
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	12
53	UNIVERSAL JOINT	19
54	CENTER BEARING - (CARRIER BEARING)	7
55	DRIVESHAFT TUBE	4
57	LOOSE AND/OR TEMPORARY SEATING	1
99	MISCELLANEOUS	1,743

Total Reports: 5,106



**Carrier Jurisdiction - Manitoba** 

Manitoba Infrastructure

Manitoba 🐆

Category: Pass Defect Category: N/A

Defect Code	Defect Description	Count
99	MISCELLANEOUS	338
	Total Defects:	338
	Total Reports:	2,101
	Defects / Reports:	0.16

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Fail Conditional **Brakes** 40.5% Windshield Wipers -Brakes -Wheels and Rims -Cargo Tanks Cargo Tanks 0.8% Trailer -Coupling Devices Bodieires--Dangerous Goods **Coupling Devices** 0.2% -DriveLine/DriveShaft **Dangerous Goods** 0.5% -Electric Buses -Exhaust DriveLine/DriveShaft 0.7% **Electric Buses** 0.0% 4.5% Exhaust 0.6% Frame Fuel System 0.5% Lighting Equipment 17.7% Load Securement 3.0% Miscellaneous 18.5% Suspension Steering Mechanism -Steering Mechanism 0.5% Miscellaneous Suspension 5.3% Tires 5.3% **Trailer Bodies** 0.4% 0.8% Wheels and Rims Frame -Fuel System 0.3% Windshield Wipers -Lighting Equipment 100.0% -Load Securement Total:

1,301 25 6
6
15
21
1
145
18
15
569
96
596
15
170
171
14
27
10

Defect Category: Fail Conditional

Total Defects: 3,215
Total Reports: 1,555
Defects / Reports: 2.07

**Carrier Jurisdiction - Manitoba** 

Manitoba Infrastructure



Category: Fail Conditional Defect Category: Fail Conditional

Defect Code	Defect Description	Count
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	5
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	145
7	CROSS MEMBER-BROKEN, SAGGING	18
8	FUEL SYSTEM LEAK, CAP MISSING	10
9	UNSECURED TANK	5
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	544
11	PROJECTING LOAD LAMPS, CLEARANCE	25
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	79
13	DUNNAGE, ANCHOR POINTS, FITTINGS	17
14	CHAMBERS, RESERVOIR, COMPRESSOR	59
15	HOSE, LINES, COUPLING, VALVES	112
16	LINING, DRUMS, DISCS	28
17	T.P. VALVE, L.A. WARNING DEVICE	5
18	AUDIBLE AIR LEAK, PUSH ROD	491
19	SLACK ADJUSTER, CAM SHAFT	58
20	PARK BRAKE, SPRING BRAKE	11
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	533
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	4
23	STEERING WHEEL, COLUMN, GEAR BOX	2
24	FRONT AXLE BEAM, PITMAN ARM	4
25	POWER STEERING, BALL / SOCKET JOINTS	7
26	TIE-RODS, DRAG LINKS, NUTS	1
27	STEERING SYSTEM, C-DOLLY	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	117
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	10
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	43
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	5
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	6
33	SIDE PANELS - BAY AREA DAMAGE	3
34	BENT, BROKEN, CRACKED, LOOSE	21
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	6
37	INOPERATIVE, MISSING, DAMAGED	10
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	171
39	DANGEROUS GOODS	15
40	CARGO TANK	25
42	ELECTICAL (BUSES)	1
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	4
53	UNIVERSAL JOINT	10
54	CENTER BEARING - (CARRIER BEARING)	4
55	DRIVESHAFT TUBE	3
57	LOOSE AND/OR TEMPORARY SEATING	1
99	MISCELLANEOUS	595

Total Defects: 3,215
Total Reports: 1,555

### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service Cargo Tanks Brakes-**Brakes** 31.0% Windshield Wipers -Coupling Devices Wheels and Rims --Dangerous Goods Cargo Tanks 1.3% Trailer -DriveLine/DriveShaft **Coupling Devices** 0.5% **Bodies** -Exhaust -Frame **Dangerous Goods** 1.0% -Fuel System DriveLine/DriveShaft 0.4% 2.0% **Exhaust** ☐ Frame 0.5% 0.4% Fuel System Lighting Equipment 20.0% Load Securement 13.0% 17.2% Miscellaneous -Lighting Equipment Steering Mechanism 0.7% -Load Securement 3.6% Suspension 6.3% **Tires Trailer Bodies** 0.3% 1.4% Wheels and Rims Tires-Windshield Wipers 0.4% Suspension Steering Mechanism Total: 100.0% Miscellaneous

Brakes	1,463
Cargo Tanks	61
Coupling Devices	22
Dangerous Goods	49
DriveLine/DriveShaft	21
Exhaust	92
Frame	22
Fuel System	17
Lighting Equipment	942
Load Securement	615
Miscellaneous	810
Steering Mechanism	35
Suspension	171
Tires	297
Trailer Bodies	16
Wheels and Rims	65
Windshield Wipers	17

Defect Category: Both

Total Defects: 4,715
Total Reports: 1,450
Defects / Reports: 3.25

**Carrier Jurisdiction - Manitoba** 

Manitoba Infrastructure



Category: Out of Service Defect Category: Both

Defect Code	Defect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	1
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	7
4	PRIMARY ATTACHMENT, CRACKED, LOOSE, WORN, NO SAFELY LOCK, BOLTS MISSING	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	13
6	LEAK, LOCATION	92
7	CROSS MEMBER-BROKEN, SAGGING	22
8	FUEL SYSTEM LEAK, CAP MISSING	17
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	914
11	PROJECTING LOAD LAMPS, CLEARANCE	28
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	512
13	DUNNAGE, ANCHOR POINTS, FITTINGS	103
14	CHAMBERS, RESERVOIR, COMPRESSOR	119
15	HOSE, LINES, COUPLING, VALVES	167
16	LINING, DRUMS, DISCS	37
17	T.P. VALVE, L.A. WARNING DEVICE	39
18	AUDIBLE AIR LEAK, PUSH ROD	439
19	SLACK ADJUSTER, CAM SHAFT	68
20	PARK BRAKE, SPRING BRAKE	136
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	328
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	130
23	STEERING WHEEL, COLUMN, GEAR BOX	7
24	FRONT AXLE BEAM, PITMAN ARM	17
25	POWER STEERING, BALL / SOCKET JOINTS	6
26	TIE-RODS, DRAG LINKS, NUTS	3
27	STEERING SYSTEM, C-DOLLY	2
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	109
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	20
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	42
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	5
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	10
33	SIDE PANELS - BAY AREA DAMAGE	1
34	BENT, BROKEN, CRACKED, LOOSE	40
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	25
37	INOPERATIVE, MISSING, DAMAGED	17
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	297
39	DANGEROUS GOODS	49
40	CARGO TANK	61
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	8
53	UNIVERSAL JOINT	9
54	CENTER BEARING - (CARRIER BEARING)	3
55	DRIVESHAFT TUBE	1
99	MISCELLANEOUS	810

Total Defects: 4,715

Total Reports: 1,450

### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service Cargo Tanks Brakes-Windshield Wipers -Coupling Devices **Brakes** 31.6% Wheels and Rims --Dangerous Goods 1.9% Trailer -DriveLine/DriveShaft Cargo Tanks **Bodies** -Exhaust **Coupling Devices** 0.6% -Frame -Fuel System **Dangerous Goods** 1.8% DriveLine/DriveShaft 0.3% Exhaust 0.1% 0.2% Frame Fuel System 0.4% Lighting Equipment 21.0% **Load Securement** 27.0% 1.3% Steering Mechanism Suspension -Lighting Equipment 3.1% 8.9% **Tires** 0.2% **Trailer Bodies** 1.4% Wheels and Rims 0.1% Tires-Windshield Wipers Suspension 100.0% Total: Steering Mechanism Load Securement

Brakes	652
Cargo Tanks	40
Coupling Devices	12
Dangerous Goods	37
DriveLine/DriveShaft	7
Exhaust	2
Frame	5
Fuel System	9
Lighting Equipment	433
Load Securement	557
Steering Mechanism	26
Suspension	65
Tires	184
Trailer Bodies	5
Wheels and Rims	29
Windshield Wipers	2

Defect Category: Out of Service

Total Defects: 2,065
Total Reports: 1,450
Defects / Reports: 1.42

**Carrier Jurisdiction - Manitoba** 

Manitoba Infrastructure



Category: Out of Service Defect Category: Out of Service

Defect Code	Defect Description	Count
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	1
4	PRIMARY ATTACHMENT, CRACKED, LOOSE, WORN, NO SAFELY LOCK, BOLTS MISSING	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	10
6	LEAK, LOCATION	2
7	CROSS MEMBER-BROKEN, SAGGING	5
8	FUEL SYSTEM LEAK, CAP MISSING	9
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	424
11	PROJECTING LOAD LAMPS, CLEARANCE	9
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	468
13	DUNNAGE, ANCHOR POINTS, FITTINGS	89
14	CHAMBERS, RESERVOIR, COMPRESSOR	61
15	HOSE, LINES, COUPLING, VALVES	102
16	LINING, DRUMS, DISCS	15
17	T.P. VALVE, L.A. WARNING DEVICE	37
18	AUDIBLE AIR LEAK, PUSH ROD	155
19	SLACK ADJUSTER, CAM SHAFT	11
20	PARK BRAKE, SPRING BRAKE	132
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	15
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	124
23	STEERING WHEEL, COLUMN, GEAR BOX	3
24	FRONT AXLE BEAM, PITMAN ARM	17
25	POWER STEERING, BALL / SOCKET JOINTS	3
26	TIE-RODS, DRAG LINKS, NUTS	1
27	STEERING SYSTEM, C-DOLLY	2
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	28
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	13
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	24
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	3
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	2
34	BENT, BROKEN, CRACKED, LOOSE	21
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	8
37	INOPERATIVE, MISSING, DAMAGED	2
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	184
39	DANGEROUS GOODS	37
40	CARGO TANK	40
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	1
53	UNIVERSAL JOINT	5
54	CENTER BEARING - (CARRIER BEARING)	1

Total Defects: 2,065
Total Reports: 1,450

### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service Cargo Tanks Brakes-**Brakes** 30.6% Windshield Wipers -Coupling Devices Wheels and Rims --Dangerous Goods Cargo Tanks 0.8% Trailer -DriveLine/DriveShaft **Coupling Devices** 0.4% Bodie Fires--Exhaust -Frame **Dangerous Goods** 0.5% -Fuel System DriveLine/DriveShaft 0.5% 3.4% **Exhaust** ☐ Frame 0.6% 0.3% Fuel System Lighting Equipment 19.2% Load Securement 2.2% 30.6% Miscellaneous Suspension Steering Mechanism -Lighting Equipment 0.3% Steering Mechanism Miscellaneous -Load Securement 4.0% Suspension 4.3% **Tires Trailer Bodies** 0.4% 1.4% Wheels and Rims 0.6% Windshield Wipers Total: 100.0%

Brakes	811
Cargo Tanks	21
Coupling Devices	10
Dangerous Goods	12
DriveLine/DriveShaft	14
Exhaust	90
Frame	17
Fuel System	8
Lighting Equipment	509
Load Securement	58
Miscellaneous	810
Steering Mechanism	9
Suspension	106
Tires	113
Trailer Bodies	11
Wheels and Rims	36
Windshield Wipers	15

Defect Category: Fail Conditional

Total Defects: 2,650
Total Reports: 1,450
Defects / Reports: 1.83

**Carrier Jurisdiction - Manitoba** 

Manitoba Infrastructure



Category: Out of Service Defect Category: Fail Conditional

Defect Code	Defect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	1
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	6
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	3
6	LEAK, LOCATION	90
7	CROSS MEMBER-BROKEN, SAGGING	17
8	FUEL SYSTEM LEAK, CAP MISSING	8
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	490
11	PROJECTING LOAD LAMPS, CLEARANCE	19
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	44
13	DUNNAGE, ANCHOR POINTS, FITTINGS	14
14	CHAMBERS, RESERVOIR, COMPRESSOR	58
15	HOSE, LINES, COUPLING, VALVES	65
16	LINING, DRUMS, DISCS	22
17	T.P. VALVE, L.A. WARNING DEVICE	2
18	AUDIBLE AIR LEAK, PUSH ROD	284
19	SLACK ADJUSTER, CAM SHAFT	57
20	PARK BRAKE, SPRING BRAKE	4
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	313
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	6
23	STEERING WHEEL, COLUMN, GEAR BOX	4
25	POWER STEERING, BALL / SOCKET JOINTS	3
26	TIE-RODS, DRAG LINKS, NUTS	2
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	81
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	7
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	18
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	2
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	8
33	SIDE PANELS - BAY AREA DAMAGE	1
34	BENT, BROKEN, CRACKED, LOOSE	19
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	17
37	INOPERATIVE, MISSING, DAMAGED	15
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	113
39	DANGEROUS GOODS	12
40	CARGO TANK	21
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	7
53	UNIVERSAL JOINT	4
54	CENTER BEARING - (CARRIER BEARING)	2
55	DRIVESHAFT TUBE	1
99	MISCELLANEOUS	810

Total Defects: 2,650

Total Reports: 1,450



# **2018 CVSA INSPECTIONS**

**Inspection Results for Out of Province Carriers** 

Category		Total					
	Pass	Fail	Out of Service				
Reports	600	425	282	1,307			
Percentage of Reports	45.91	32.52	21.58	100%			
Defects	80	844	803	1,727			
Defects per Report	0.13	1.99	2.85	1.32			

### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All Windshield Wipers -**Brakes** 42.7% Wheels and Rims -Trailer Cargo Tanks 2.0% Bodiesires-**Coupling Devices** 0.2% **Dangerous Goods** 0.9% DriveLine/DriveShaft 0.2% -Brakes 2.1% **Exhaust** Cargo Tanks -Coupling Devices ☐ Frame 0.3% 0.3% Fuel System Lighting Equipment 14.0% 7.1% Load Securement Miscellaneous 19.5% Suspension Steering Mechanism -Steering Mechanism 0.4% Miscellaneous Suspension 5.4% **Tires** 3.7% -Dangerous Goods **Trailer Bodies** 0.2% -DriveLine/DriveShaft -Exhaust 1.0% Wheels and Rims -Frame 0.1% -Fuel System Windshield Wipers -Lighting Equipment Total: 100.0% -Load Securement

Brakes	737
Cargo Tanks	34
Coupling Devices	3
Dangerous Goods	16
DriveLine/DriveShaft	4
Exhaust	36
Frame	5
Fuel System	5
Lighting Equipment	241
Load Securement	123
Miscellaneous	336
Steering Mechanism	7
Suspension	93
Tires	64
Trailer Bodies	3
Wheels and Rims	18
Windshield Wipers	2

Defect Category: Both

Total Defects: 1,727
Total Reports: 1,307
Defects / Reports: 1.32

**Carrier Jurisdiction - Out of Province** 

Manitoba Infrastructure



Category: All Defect Category: Both

Defect Code	Defect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	1
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	36
7	CROSS MEMBER-BROKEN, SAGGING	5
8	FUEL SYSTEM LEAK, CAP MISSING	5
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	225
11	PROJECTING LOAD LAMPS, CLEARANCE	16
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	101
13	DUNNAGE, ANCHOR POINTS, FITTINGS	22
14	CHAMBERS, RESERVOIR, COMPRESSOR	32
15	HOSE, LINES, COUPLING, VALVES	102
16	LINING, DRUMS, DISCS	9
17	T.P. VALVE, L.A. WARNING DEVICE	7
18	AUDIBLE AIR LEAK, PUSH ROD	233
19	SLACK ADJUSTER, CAM SHAFT	35
20	PARK BRAKE, SPRING BRAKE	15
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	292
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	12
23	STEERING WHEEL, COLUMN, GEAR BOX	5
25	POWER STEERING, BALL / SOCKET JOINTS	1
27	STEERING SYSTEM, C-DOLLY	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	54
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	5
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	34
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	1
33	SIDE PANELS - BAY AREA DAMAGE	2
34	BENT, BROKEN, CRACKED, LOOSE	14
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	4
37	INOPERATIVE, MISSING, DAMAGED	2
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	64
39	DANGEROUS GOODS	16
40	CARGO TANK	34
53	UNIVERSAL JOINT	3
55	DRIVESHAFT TUBE	1
99	MISCELLANEOUS	336

Total Defects: 1,727
Total Reports: 1,307



**Carrier Jurisdiction - Out of Province** 

Manitoba Infrastructure

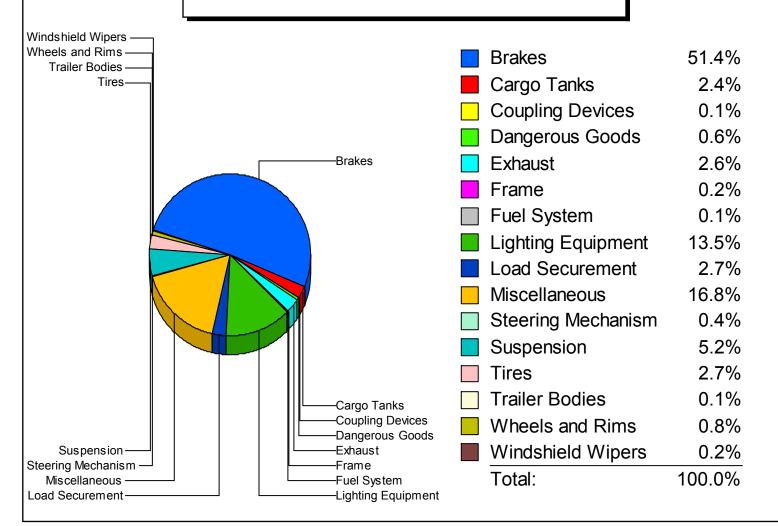
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Category: Pass Defect Category: N/A

Defect Code	Defect Description	Count
99	MISCELLANEOUS	80
	Total Defects:	80
	Total Reports:	600
	Defects / Reports:	0.13

## **2018 CVSA INSPECTIONS**

Grouped by Defect Category Category: Fail Conditional



Brakes	434
Cargo Tanks	20
Coupling Devices	1
Dangerous Goods	5
Exhaust	22
Frame	2
Fuel System	1
Lighting Equipment	114
Load Securement	23
Miscellaneous	142
Steering Mechanism	3
Suspension	44
Tires	23
Trailer Bodies	1
Wheels and Rims	7
Windshield Wipers	2

Defect Category: Fail Conditional

Total Defects: 844
Total Reports: 425
Defects / Reports: 1.99

**Carrier Jurisdiction - Out of Province** 

Manitoba Infrastructure



Category: Fail Conditional Defect Category: Fail Conditional

6 LEAK, LC 7 CROSS M 8 FUEL SYS 10 HEADLAN 11 PROJECT 12 SPARE T 13 DUNNAG 14 CHAMBE 15 HOSE, LI 16 LINING, E 18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER M 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING M 30 AIR SUSE 32 FLOOR M	EEL ASSEMBLY - UPPER / LOWER CRACKS CATION  EMBER-BROKEN, SAGGING  TEM LEAK, CAP MISSING  PS, TAIL LIGHTS, SIGNAL, BRAKE  NG LOAD LAMPS, CLEARANCE  RE, DEFECTIVE TIE-DOWNS  S, ANCHOR POINTS, FITTINGS  SS, RESERVOIR, COMPRESSOR  ES, COUPLING, VALVES  RUMS, DISCS  AIR LEAK, PUSH ROD	1 22 2 1 110 4 17 6 14
7 CROSS N 8 FUEL SY3 10 HEADLAN 11 PROJECT 12 SPARE TI 13 DUNNAG 14 CHAMBE 15 HOSE, LI 16 LINING, E 18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	EMBER-BROKEN, SAGGING TEM LEAK, CAP MISSING PS, TAIL LIGHTS, SIGNAL, BRAKE NG LOAD LAMPS, CLEARANCE RE, DEFECTIVE TIE-DOWNS I, ANCHOR POINTS, FITTINGS IS, RESERVOIR, COMPRESSOR ES, COUPLING, VALVES RUMS, DISCS	2 1 110 4 17 6 14
8 FUEL SYS 10 HEADLAN 11 PROJECT 12 SPARE T 13 DUNNAG 14 CHAMBE 15 HOSE, LI 16 LINING, E 18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	TEM LEAK, CAP MISSING PS, TAIL LIGHTS, SIGNAL, BRAKE NG LOAD LAMPS, CLEARANCE RE, DEFECTIVE TIE-DOWNS ANCHOR POINTS, FITTINGS S, RESERVOIR, COMPRESSOR ES, COUPLING, VALVES RUMS, DISCS	1 110 4 17 6 14
10 HEADLAN 11 PROJECT 12 SPARE T 13 DUNNAG 14 CHAMBE 15 HOSE, LI 16 LINING, E 18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	PS, TAIL LIGHTS, SIGNAL, BRAKE NG LOAD LAMPS, CLEARANCE RE, DEFECTIVE TIE-DOWNS ANCHOR POINTS, FITTINGS RS, RESERVOIR, COMPRESSOR ES, COUPLING, VALVES RUMS, DISCS	4 17 6 14
11 PROJECT  12 SPARE TO  13 DUNNAG  14 CHAMBE  15 HOSE, LI  16 LINING, E  18 AUDIBLE  19 SLACK AI  20 PARK BR  21 FLUID LE  22 POWER AI  23 STEERIN  25 POWER SI  27 STEERIN  28 AXLE PAI  29 SPRING AIR SUSE  30 AIR SUSE  31 POWER AIR  32 FLOOR AIR  32 FLOOR AIR  33 SPARE TO  34 SPARE TO  36 SPARE TO  37 STEERIN  38 SPARE TO  39 SPRING AIR  30 AIR SUSE  31 SPARE TO  30 AIR SUSE  31 SPARE TO  31 SPARE TO  32 FLOOR AIR  33 SPARE TO  34 SPARE TO  36 SPARE TO  37 STEERIN  38 SPRING AIR  39 SPRING AIR  30 SPARE TO  30 AIR SUSE  31 SPARE TO  31 SPARE TO  32 FLOOR AIR  33 SPARE TO  34 SPARE TO  36 SPARE TO  36 SPARE TO  37 SPARE TO  38 SPARE TO  38 SPARE TO  38 SPARE TO  48 SPARE T	NG LOAD LAMPS, CLEARANCE RE, DEFECTIVE TIE-DOWNS , ANCHOR POINTS, FITTINGS RS, RESERVOIR, COMPRESSOR ES, COUPLING, VALVES RUMS, DISCS	4 17 6 14
12 SPARE T 13 DUNNAG 14 CHAMBE 15 HOSE, LI 16 LINING, E 18 AUDIBLE 19 SLACK A 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	RE, DEFECTIVE TIE-DOWNS I, ANCHOR POINTS, FITTINGS IS, RESERVOIR, COMPRESSOR ES, COUPLING, VALVES RUMS, DISCS	17 6 14
13 DUNNAG 14 CHAMBE 15 HOSE, LI 16 LINING, E 18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	S, ANCHOR POINTS, FITTINGS SS, RESERVOIR, COMPRESSOR ES, COUPLING, VALVES RUMS, DISCS	6 14
14 CHAMBE 15 HOSE, LI 16 LINING, E 18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	ES, RESERVOIR, COMPRESSOR ES, COUPLING, VALVES RUMS, DISCS	14
15 HOSE, LI 16 LINING, E 18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	ES, COUPLING, VALVES RUMS, DISCS	
16 LINING, E 18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSF 32 FLOOR /	RUMS, DISCS	52
18 AUDIBLE 19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSF 32 FLOOR /		
19 SLACK AI 20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	VIR LEAK, PUSH ROD	1
20 PARK BR 21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	·	142
21 FLUID LE 22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR /	JUSTER, CAM SHAFT	14
22 POWER A 23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSF 32 FLOOR /	KE, SPRING BRAKE	2
23 STEERIN 25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSE 32 FLOOR A	KAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	208
25 POWER S 27 STEERIN 28 AXLE PAI 29 SPRING A 30 AIR SUSF 32 FLOOR A	SSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	1
27 STEERIN 28 AXLE PAI 29 SPRING / 30 AIR SUSF 32 FLOOR /	WHEEL, COLUMN, GEAR BOX	1
28 AXLE PAI 29 SPRING A 30 AIR SUSF 32 FLOOR /	TEERING, BALL / SOCKET JOINTS	1
29 SPRING / 30 AIR SUSF 32 FLOOR /	SYSTEM, C-DOLLY	1
30 AIR SUSF 32 FLOOR /	TS - CRACKED, LOOSE, BROKEN, MISSING	22
32 FLOOR /	SSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	4
	ENSION - LEAKING, LOOSE, BROKEN	18
34 BENT, BR	ROSS MEMBERS - BROKEN, DETACHED, SAGGING	1
	DKEN, CRACKED, LOOSE	7
37 INOPERA	IVE, MISSING, DAMAGED	2
38 WORN, C	JT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	23
39 DANGER	OUS GOODS	5
40 CARGO 1	NK	 20
99 MISCELL		 142

Total Defects: 844
Total Reports: 425

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service Cargo Tanks Brakes-Wheels and Rims -Coupling Devices **Brakes** 37.7% -Dangerous Goods Trailer 1.7% Bodieires--DriveLine/DriveShaft Cargo Tanks -Exhaust **Coupling Devices** 0.2% -Frame -Fuel System **Dangerous Goods** 1.4% DriveLine/DriveShaft 0.5% Exhaust 1.7% 0.4% Frame Fuel System 0.5% Lighting Equipment 15.8% **Load Securement** 12.5% Suspension 14.2% Miscellaneous Steering Mechanism --Lighting Equipment Steering Mechanism 0.5% Miscellaneous -Load Securement Suspension 6.1% 5.1% **Tires** 0.2% **Trailer Bodies** Wheels and Rims 1.4% 100.0% Total:

Brakes	202
Brakes	303
Cargo Tanks	14
Coupling Devices	2
Dangerous Goods	11
DriveLine/DriveShaft	4
Exhaust	14
Frame	3
Fuel System	4
Lighting Equipment	127
Load Securement	100
Miscellaneous	114
Steering Mechanism	4
Suspension	49
Tires	41
Trailer Bodies	2
Wheels and Rims	11

Defect Category: Both

Total Defects: 803
Total Reports: 282
Defects / Reports: 2.85

**Carrier Jurisdiction - Out of Province** 

Manitoba Infrastructure



Category: Out of Service Defect Category: Both

Defect Code	Defect Description	Count
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	14
7	CROSS MEMBER-BROKEN, SAGGING	3
8	FUEL SYSTEM LEAK, CAP MISSING	4
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	115
11	PROJECTING LOAD LAMPS, CLEARANCE	12
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	84
13	DUNNAGE, ANCHOR POINTS, FITTINGS	16
14	CHAMBERS, RESERVOIR, COMPRESSOR	18
15	HOSE, LINES, COUPLING, VALVES	50
16	LINING, DRUMS, DISCS	8
17	T.P. VALVE, L.A. WARNING DEVICE	7
18	AUDIBLE AIR LEAK, PUSH ROD	91
19	SLACK ADJUSTER, CAM SHAFT	21
20	PARK BRAKE, SPRING BRAKE	13
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	84
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	11
23	STEERING WHEEL, COLUMN, GEAR BOX	4
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	32
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	1
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	16
33	SIDE PANELS - BAY AREA DAMAGE	2
34	BENT, BROKEN, CRACKED, LOOSE	7
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	4
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	41
39	DANGEROUS GOODS	11
40	CARGO TANK	14
53	UNIVERSAL JOINT	3
55	DRIVESHAFT TUBE	1
99	MISCELLANEOUS	114
	Total Defects:	803

Total Defects: 803
Total Reports: 282

## **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service -Cargo Tanks Coupling Devices -Dangerous Goods -DriveLine/DriveShaft -Fuel System 31.2% **Brakes** Cargo Tanks 3.3% Brakes-Coupling Devices 0.3% Wheels and Rims-Dangerous Goods 2.1% DriveLine/DriveShaft 0.9% Fuel System 1.2% Lighting Equipment 16.5% Load Securement 27.9% -Lighting Equipment Tires 5.4% Suspension -Load Securement Suspension **Tires** 8.4% Wheels and Rims 2.7% 100.0% Total:

Brakes	104
Cargo Tanks	11
Coupling Devices	1
Dangerous Goods	7
DriveLine/DriveShaft	3
Fuel System	4
Lighting Equipment	55
Load Securement	93
Suspension	18
Tires	28
Wheels and Rims	9

Defect Category: Out of Service

Total Defects: 333
Total Reports: 282
Defects / Reports: 1.18

**Carrier Jurisdiction - Out of Province** 

Manitoba Infrastructure



Category: Out of Service Defect Category: Out of Service

Defect Code	Defect Description	Count
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
8	FUEL SYSTEM LEAK, CAP MISSING	4
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	53
11	PROJECTING LOAD LAMPS, CLEARANCE	2
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	79
13	DUNNAGE, ANCHOR POINTS, FITTINGS	14
14	CHAMBERS, RESERVOIR, COMPRESSOR	3
15	HOSE, LINES, COUPLING, VALVES	36
16	LINING, DRUMS, DISCS	4
17	T.P. VALVE, L.A. WARNING DEVICE	5
18	AUDIBLE AIR LEAK, PUSH ROD	27
19	SLACK ADJUSTER, CAM SHAFT	6
20	PARK BRAKE, SPRING BRAKE	12
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	11
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	10
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	1
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	7
34	BENT, BROKEN, CRACKED, LOOSE	6
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	3
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	28
39	DANGEROUS GOODS	7
40	CARGO TANK	11
53	UNIVERSAL JOINT	3

Total Defects: 333

Total Reports: 282

## **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service -Brakes -Cargo Tanks -Coupling Devices **Brakes** 42.3% -Dangerous Goods Cargo Tanks 0.6% -DriveLine/DriveShaft **Coupling Devices** 0.2% **Dangerous Goods** 0.9% Wheels and Rims DriveLine/DriveShaft 0.2% Trailer Bodie Fires Exhaust 3.0% 0.6% ☐ Frame Lighting Equipment 15.3% 1.5% **Load Securement** Miscellaneous 24.3% Suspension Steering Mechanism -0.9% Steering Mechanism Miscellaneous Suspension 6.6% 2.8% Tires 0.4% **Trailer Bodies** Wheels and Rims 0.4% -Exhaust 100.0% Total: -Frame -Lighting Equipment -Load Securement

Brakes	199
Cargo Tanks	3
Coupling Devices	1
Dangerous Goods	4
DriveLine/DriveShaft	1
Exhaust	14
Frame	3
Lighting Equipment	72
Load Securement	7
Miscellaneous	114
Steering Mechanism	4
Suspension	31
Tires	13
Trailer Bodies	2
Wheels and Rims	2

Defect Category: Fail Conditional

Total Defects: 470
Total Reports: 282
Defects / Reports: 1.67

**Carrier Jurisdiction - Out of Province** 

Manitoba Infrastructure

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Category: Out of Service **Defect Category: Fail Conditional** 

Defect Code	Defect Description	Count
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	1
6	LEAK, LOCATION	14
7	CROSS MEMBER-BROKEN, SAGGING	3
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	62
11	PROJECTING LOAD LAMPS, CLEARANCE	10
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	5
13	DUNNAGE, ANCHOR POINTS, FITTINGS	2
14	CHAMBERS, RESERVOIR, COMPRESSOR	15
15	HOSE, LINES, COUPLING, VALVES	14
16	LINING, DRUMS, DISCS	4
17	T.P. VALVE, L.A. WARNING DEVICE	2
18	AUDIBLE AIR LEAK, PUSH ROD	64
19	SLACK ADJUSTER, CAM SHAFT	15
20	PARK BRAKE, SPRING BRAKE	1
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	84
23	STEERING WHEEL, COLUMN, GEAR BOX	4
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	22
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	9
33	SIDE PANELS - BAY AREA DAMAGE	2
34	BENT, BROKEN, CRACKED, LOOSE	1
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	1
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	13
39	DANGEROUS GOODS	4
40	CARGO TANK	3
55	DRIVESHAFT TUBE	1
99	MISCELLANEOUS	114

**Total Reports:** 282

1.67

# ALL Inspection Results by Registration Class Jan 01, 2018 to Dec 31, 2018

Truck Type		Inspection Result		Total	Percentage
	Pass	Fail	Out of Service		(%)
A5 STRAIGHT	8	7	13	28	0.55%
A6 FARM	106	71	92	269	5.27%
AR REG PASS	9	4	1	14	0.27%
C1 COMMERCIAL	737	483	478	1,698	33.25%
C5 LTD CT	199	172	177	548	10.73%
LIGHT DUTY	42	26	110	178	3.49%
P2 PSV BUS	23	2	0	25	0.49%
P4 PSV TRUCK	873	637	455	1,965	38.48%
P8 LTD PSV TRUCK	104	153	124	381	7.46%
TAXI	0	0	0	0	0.00%
TOTAL	2,101	1,555	1,450	5,106	100.00%
Percentage (%)	41%	30%	28%	100%	

Percentages					
Truck Type		Total			
	Pass Fail Out of Service				
A5 STRAIGHT	28.57%	25.00%	46.43%	100%	
A6 FARM	39.41%	26.39%	34.20%	100%	
AR REG PASS	64.29%	28.57%	7.14%	100%	
C1 COMMERCIAL	43.40%	28.45%	28.15%	100%	
C5 LTD CT	36.31%	31.39%	32.30%	100%	
LIGHT DUTY	23.60%	14.61%	61.80%	100%	
P2 PSV BUS	92.00%	8.00%	0.00%	100%	
P4 PSV TRUCK	44.43%	32.42%	23.16%	100%	
P8 LTD PSV TRUCK	27.30%	40.16%	32.55%	100%	
TAXI	0.00%	0.00%	0.00%	0%	

Legend:

Registration Class is determined by the vehicle and how it is registered. For the purpose of this report, all vehicles have a Registered Gross Vehicle Weight of 4500Kgs or greater with the exception of Light Duty Vehicles.

Truck Types

A5 Straight:

Is a *motor vehicle* or *semi-trailer truck* that is not a *delivery car* and that is constructed or adapted to carry goods, but not passengers or luggage. This classification covers all trucks not defined elsewhere. This includes all personal conveyances. As of September 1, 2015, this will only include personal use vehicle.

A6 Farm:

Is a truck own or leased by a farmer

## AR Regulated Passenger Vehicle:

Is a passenger veicle designed for carrying 11 or more persons, including the driver, but is not a public services vehicle. New registration class created September 1, 2015 to replace certain A1 plates.

## C1 Commercial:

Is either a *truck* or a *trailer* operated by a business to transport business goods for commercial purposes. Commercial vehicle may not be used to transport people or property for gain or compensation.

## C5 Limited Use Commercial Truck:

Is the same as C1 Commercial but only within restricted distances of registered owner's place of business.

This registration class was also created September 1, 2015 to replace certain A5 plates that previously met legislative exemptions.

#### P2 - P4 Public Service:

Is a motor vehicle or trailer operated to transport people or property on a highway for pay.

The exceptions are passenger carrying *vehicles* of an electric or steam railway or motorbus company operating on the streets of a city, *school buses*, *ambulances*, *hearses*.

## P8 Limited Use Public Service Truck:

Is the same as P4 Public Service but only within restricted distance from the registered owner's place of business.

Third new registration class created September 1, 2015 to replace certain A5 plates.

## **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All Fuel System-Exhaust-Coupling Devices Cargo Tanks-Brakes-12.5% **Brakes** Windshield Wipers -Wheels and Rims -1.6% Cargo Tanks -Lighting Equipment Coupling Devices 1.6% **Exhaust** 3.1% Fuel System 1.6% Lighting Equipment 23.4% Load Securement 17.2% Miscellaneous 26.6% 1.6% Tires Steering Mechanism Steering Mechanism 3.1% **Tires** Miscellaneous Load Securement 6.3% Wheels and Rims Windshield Wipers 1.6% 100.0% Total:

Brakes	8
Cargo Tanks	1
Coupling Devices	1
Exhaust	2
Fuel System	1
Lighting Equipment	15
Load Securement	11
Miscellaneous	17
Steering Mechanism	1
Tires	2
Wheels and Rims	4
Windshield Wipers	1

Defect Category: Both

Total Defects: 64
Total Reports: 28
Defects / Reports: 2.29

A5 - Straight Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: All Defect Category: Both

Defect Code	Defect Description	Count
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	2
8	FUEL SYSTEM LEAK, CAP MISSING	1
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	15
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	7
13	DUNNAGE, ANCHOR POINTS, FITTINGS	4
18	AUDIBLE AIR LEAK, PUSH ROD	1
20	PARK BRAKE, SPRING BRAKE	4
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	1
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	2
26	TIE-RODS, DRAG LINKS, NUTS	1
34	BENT, BROKEN, CRACKED, LOOSE	1
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	3
37	INOPERATIVE, MISSING, DAMAGED	1
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	2
40	CARGO TANK	1
99	MISCELLANEOUS	17

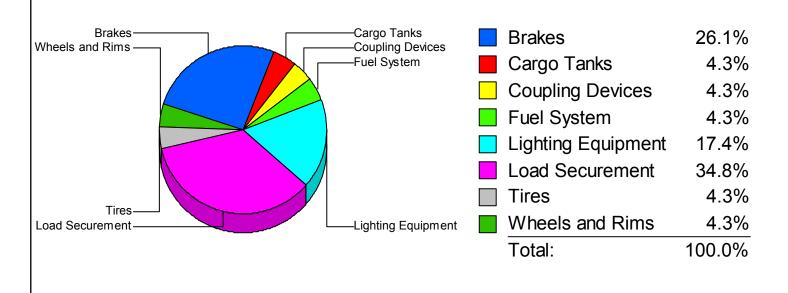
 Total Defects:
 64

 Total Reports:
 28

 Defects / Reports:
 2.29

## **2018 CVSA INSPECTIONS**

Grouped by Defect Category Category: Out of Service



Brakes	6
Cargo Tanks	1
Coupling Devices	1
Fuel System	1
Lighting Equipment	4
Load Securement	8
Tires	1
Wheels and Rims	1

Defect Category: Out of Service

Total Defects: 23
Total Reports: 13
Defects / Reports: 1.77

A5 - Straight Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: Out of Service Defect Category: Out of Service

Defect Code	Defect Description	Count
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
8	FUEL SYSTEM LEAK, CAP MISSING	1
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	4
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	5
13	DUNNAGE, ANCHOR POINTS, FITTINGS	3
20	PARK BRAKE, SPRING BRAKE	4
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	2
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	1
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	1
40	CARGO TANK	1

Total Defects: 23

Total Reports: 13

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All -Cargo Tanks Brakes-Wheels and Rims --Coupling Devices 26.7% **Brakes** Trailer -Dangerous Goods 0.4% Bodiefires--DriveLine/DriveShaft Cargo Tanks -Exhaust **Coupling Devices** 0.4% -Frame -Fuel System **Dangerous Goods** 0.2% DriveLine/DriveShaft 0.4% Exhaust 4.1% 0.4% Frame Fuel System 0.8% Lighting Equipment 25.3% **Load Securement** 5.3% Suspension-25.7% Miscellaneous Steering Mechanism --Lighting Equipment Steering Mechanism 1.0% Miscellaneous -Load Securement Suspension 2.6% 5.9% **Tires** 0.2% **Trailer Bodies** Wheels and Rims 0.6% 100.0% Total:

Brakes	131
Cargo Tanks	2
Coupling Devices	2
Dangerous Goods	1
DriveLine/DriveShaft	2
Exhaust	20
Frame	2
Fuel System	4
Lighting Equipment	124
Load Securement	26
Miscellaneous	126
Steering Mechanism	5
Suspension	13
Tires	29
Trailer Bodies	1
Wheels and Rims	3

Defect Category: Both

Total Defects: 491
Total Reports: 269
Defects / Reports: 1.83

A6 - Farm Truck - Manitoba Registration Only

Manitoba Infrastructure



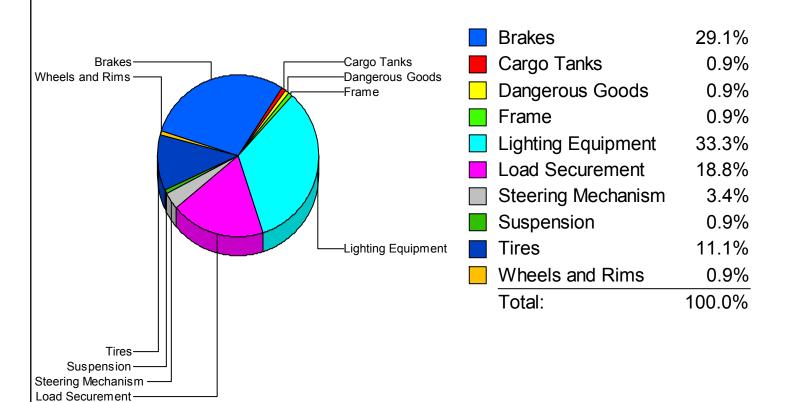
Category: All Defect Category: Both

Defect Code	Defect Description	Count
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	20
7	CROSS MEMBER-BROKEN, SAGGING	2
8	FUEL SYSTEM LEAK, CAP MISSING	2
9	UNSECURED TANK	2
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	119
11	PROJECTING LOAD LAMPS, CLEARANCE	5
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	25
13	DUNNAGE, ANCHOR POINTS, FITTINGS	1
14	CHAMBERS, RESERVOIR, COMPRESSOR	8
15	HOSE, LINES, COUPLING, VALVES	15
16	LINING, DRUMS, DISCS	5
17	T.P. VALVE, L.A. WARNING DEVICE	3
18	AUDIBLE AIR LEAK, PUSH ROD	55
19	SLACK ADJUSTER, CAM SHAFT	5
20	PARK BRAKE, SPRING BRAKE	8
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	25
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	7
23	STEERING WHEEL, COLUMN, GEAR BOX	1
24	FRONT AXLE BEAM, PITMAN ARM	3
25	POWER STEERING, BALL / SOCKET JOINTS	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	9
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	4
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	1
34	BENT, BROKEN, CRACKED, LOOSE	2
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	1
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	29
39	DANGEROUS GOODS	1
40	CARGO TANK	2
53	UNIVERSAL JOINT	1
54	CENTER BEARING - (CARRIER BEARING)	1
99	MISCELLANEOUS	126

Total Defects: 491
Total Reports: 269

## **2018 CVSA INSPECTIONS**

Grouped by Defect Category Category: Out of Service



Brakes	34
Cargo Tanks	1
Dangerous Goods	1
Frame	1
Lighting Equipment	39
Load Securement	22
Steering Mechanism	4
Suspension	1
Tires	13
Wheels and Rims	1

Defect Category: Out of Service

Total Defects: 117
Total Reports: 92
Defects / Reports: 1.27

A6 - Farm Truck - Manitoba Registration Only

Manitoba Infrastructure



**Category: Out of Service Defect Category: Out of Service** 

Defect Code	Defect Description	Count
7	CROSS MEMBER-BROKEN, SAGGING	1
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	38
11	PROJECTING LOAD LAMPS, CLEARANCE	1
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	21
13	DUNNAGE, ANCHOR POINTS, FITTINGS	1
14	CHAMBERS, RESERVOIR, COMPRESSOR	2
15	HOSE, LINES, COUPLING, VALVES	8
17	T.P. VALVE, L.A. WARNING DEVICE	2
18	AUDIBLE AIR LEAK, PUSH ROD	9
20	PARK BRAKE, SPRING BRAKE	6
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	7
23	STEERING WHEEL, COLUMN, GEAR BOX	1
24	FRONT AXLE BEAM, PITMAN ARM	3
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	1
34	BENT, BROKEN, CRACKED, LOOSE	1
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	13
39	DANGEROUS GOODS	1
40	CARGO TANK	1

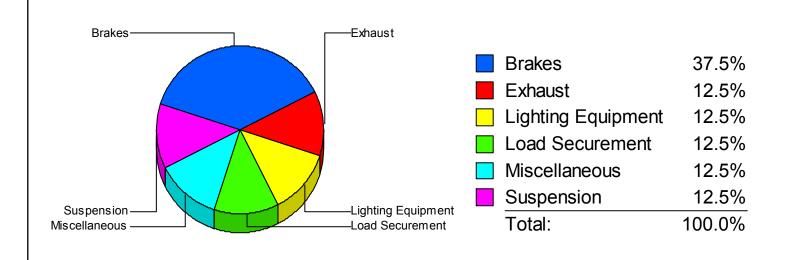
117 **Total Defects:** 92

Defects / Reports: 1.27

**Total Reports:** 

## **2018 CVSA INSPECTIONS**

Grouped by Defect Category
Category: All



Brakes	3
Exhaust	1
Lighting Equipment	1
Load Securement	1
Miscellaneous	1
Suspension	1

Defect Category: Both

Total Defects: 8
Total Reports: 14
Defects / Reports: 0.57

AR - Regulated Passenger Vehicle - Manitoba Registration Only

Manitoba Infrastructure



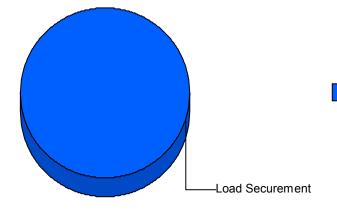
# Category: All Defect Category: Both

Defect Code	Defect Description	Count
6	LEAK, LOCATION	1
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	1
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	1
15	HOSE, LINES, COUPLING, VALVES	1
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	2
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	1
99	MISCELLANEOUS	1

Total Defects:	8
Total Reports:	14



Grouped by Defect Category Category: Out of Service



Load Securement 100.0% Total: 100.0%

Load Securement 1

Defect Category: Out of Service

Total Defects: 1
Total Reports: 1

AR - Regulated Passenger Vehicle - Manitoba Registration Only

Manitoba Infrastructure Manitoba 🔛

**Defect Category: Out of Service** 

tegory: Out	of Service Defect Category: Out of Serv	rice MANAGO	<b>u</b> >> 1
Defect Code	Defect Desc	rintion	Count
12	SPARE TIRE, DEFECTIVE TIE-DOWNS		1
		Total Defects:	1
		Total Reports:	1
		Defects / Reports:	1.00

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All Cargo Tanks Brakes-**Brakes** 30.1% Windshield Wipers --Coupling Devices Wheels and Rims --Dangerous Goods Cargo Tanks 1.5% Trailer -DriveLine/DriveShaft **Coupling Devices** 0.6% Bodie Fires--Exhaust -Frame **Dangerous Goods** 1.2% -Fuel System DriveLine/DriveShaft 0.5% 3.1% **Exhaust** ☐ Frame 0.5% 0.2% Fuel System Lighting Equipment 17.5% Load Securement 10.0% Miscellaneous 22.9% Suspension Steering Mechanism --Lighting Equipment 0.6% Steering Mechanism Miscellaneous -Load Securement Suspension 3.8% **Tires** 5.9% **Trailer Bodies** 0.2% 1.1% Wheels and Rims 0.3% Windshield Wipers Total: 100.0%

Brakes	726
Cargo Tanks	37
Coupling Devices	14
Dangerous Goods	29
DriveLine/DriveShaft	11
Exhaust	74
Frame	12
Fuel System	6
Lighting Equipment	421
Load Securement	241
Miscellaneous	551
Steering Mechanism	14
Suspension	92
Tires	141
Trailer Bodies	6
Wheels and Rims	26
Windshield Wipers	8

Defect Category: Both

Total Defects: 2,409
Total Reports: 1,698
Defects / Reports: 1.42

C1 - Commercial Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: All Defect Category: Both

Defect Code	Defect Description	Count
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	5
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	9
6	LEAK, LOCATION	74
7	CROSS MEMBER-BROKEN, SAGGING	12
8	FUEL SYSTEM LEAK, CAP MISSING	6
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	407
11	PROJECTING LOAD LAMPS, CLEARANCE	14
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	211
13	DUNNAGE, ANCHOR POINTS, FITTINGS	30
14	CHAMBERS, RESERVOIR, COMPRESSOR	49
15	HOSE, LINES, COUPLING, VALVES	73
16	LINING, DRUMS, DISCS	13
17	T.P. VALVE, L.A. WARNING DEVICE	9
18	AUDIBLE AIR LEAK, PUSH ROD	205
19	SLACK ADJUSTER, CAM SHAFT	32
20	PARK BRAKE, SPRING BRAKE	76
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	214
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	55
23	STEERING WHEEL, COLUMN, GEAR BOX	2
24	FRONT AXLE BEAM, PITMAN ARM	6
25	POWER STEERING, BALL / SOCKET JOINTS	5
26	TIE-RODS, DRAG LINKS, NUTS	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	66
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	14
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	12
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	1
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	3
33	SIDE PANELS - BAY AREA DAMAGE	2
34	BENT, BROKEN, CRACKED, LOOSE	18
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	8
37	INOPERATIVE, MISSING, DAMAGED	8
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	141
39	DANGEROUS GOODS	29
40	CARGO TANK	37
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	2
53	UNIVERSAL JOINT	5
54	CENTER BEARING - (CARRIER BEARING)	2
55	DRIVESHAFT TUBE	2
99	MISCELLANEOUS	551

Total Defects: 2,409

Total Reports: 1,698

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service -Cargo Tanks Coupling Devices -Dangerous Goods **Brakes** 32.9% -DriveLine/DriveShaft Cargo Tanks 1.7% -Exhaust -Frame **Coupling Devices** 1.1% -Fuel System **Dangerous Goods** 2.3% Brakes-DriveLine/DriveShaft 0.3% Wheels and Rims-Trailer Exhaust 0.1% **Bodies** 0.3% Frame Fuel System 0.4% Lighting Equipment 18.5% **Load Securement** 27.8% 1.0% Steering Mechanism -Lighting Equipment 3.0% Suspension **Tires** 8.9% **Trailer Bodies** 0.1% Wheels and Rims 1.4% Tires-100.0% Total: Suspension Steering Mechanism Load Securement

Brakes	229
Cargo Tanks	12
Coupling Devices	8
Dangerous Goods	16
DriveLine/DriveShaft	2
Exhaust	1
Frame	2
Fuel System	3
Lighting Equipment	129
Load Securement	194
Steering Mechanism	7
Suspension	21
Tires	62
Trailer Bodies	1
Wheels and Rims	10

Defect Category: Out of Service

Total Defects: 697
Total Reports: 478
Defects / Reports: 1.46

C1 - Commercial Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: Out of Service Defect Category: Out of Service

5 S 6 L 7 C 8 F 10 H	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE LEAK, LOCATION CROSS MEMBER-BROKEN, SAGGING FUEL SYSTEM LEAK, CAP MISSING HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	1 7 1 2 3
6 L 7 C 8 F 10 H	LEAK, LOCATION CROSS MEMBER-BROKEN, SAGGING FUEL SYSTEM LEAK, CAP MISSING	1 2
7 C 8 F 10 H	CROSS MEMBER-BROKEN, SAGGING FUEL SYSTEM LEAK, CAP MISSING	2
8 F 10 H 11 P	FUEL SYSTEM LEAK, CAP MISSING	
10 H		3
11 P	HEADLAMPS TAILLIGHTS SIGNAL BRAKE	
	HEADE WITE, THE EIGHTE, CICIONE, BIVINE	126
12 S	PROJECTING LOAD LAMPS, CLEARANCE	3
	SPARE TIRE, DEFECTIVE TIE-DOWNS	174
13	DUNNAGE, ANCHOR POINTS, FITTINGS	20
14 C	CHAMBERS, RESERVOIR, COMPRESSOR	15
15 ⊦	HOSE, LINES, COUPLING, VALVES	36
16 L	LINING, DRUMS, DISCS	1
17 T	T.P. VALVE, L.A. WARNING DEVICE	8
18 A	AUDIBLE AIR LEAK, PUSH ROD	34
19 S	SLACK ADJUSTER, CAM SHAFT	4
20 P	PARK BRAKE, SPRING BRAKE	71
21 F	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	10
22 P	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	50
24 F	FRONT AXLE BEAM, PITMAN ARM	5
25 P	POWER STEERING, BALL / SOCKET JOINTS	1
26 T	TIE-RODS, DRAG LINKS, NUTS	1
28 A	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	8
29 S	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	8
30 A	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	5
31 L	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	1
34 B	BENT, BROKEN, CRACKED, LOOSE	8
35 F	FASTENERS, STUDS, NUTS - MISSING, BROKEN	2
38 V	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	62
39	DANGEROUS GOODS	16
40 C	CARGO TANK	12
53 L	UNIVERSAL JOINT	2

 Total Defects:
 697

 Total Reports:
 478

 Defects / Reports:
 1.46

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All Cargo Tanks Brakes-**Brakes** 29.5% Windshield Wipers -Coupling Devices Wheels and Rims --Dangerous Goods Cargo Tanks 0.1% Trailer -DriveLine/DriveShaft **Coupling Devices** 0.1% **Bodies** -Exhaust -Frame **Dangerous Goods** 0.3% -Fuel System -Lighting Equipment DriveLine/DriveShaft 0.5% 2.8% **Exhaust** ☐ Frame 0.4% 0.7% Fuel System Lighting Equipment 18.2% Load Securement 9.4% 19.3% Miscellaneous 0.8% Steering Mechanism -Load Securement Suspension 4.4% 11.3% **Tires Trailer Bodies** 0.3% 1.7% Wheels and Rims Tires-0.4% Windshield Wipers Suspension Steering Mechanism Total: 100.0% Miscellaneous

Brakes	308
Cargo Tanks	1
Coupling Devices	1
Dangerous Goods	3
DriveLine/DriveShaft	5
Exhaust	29
Frame	4
Fuel System	7
Lighting Equipment	190
Load Securement	98
Miscellaneous	201
Steering Mechanism	8
Suspension	46
Tires	118
Trailer Bodies	3
Wheels and Rims	18
Windshield Wipers	4

Defect Category: Both

Total Defects: 1,044
Total Reports: 548
Defects / Reports: 1.91

C5 - Limited Commercial Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: All Defect Category: Both

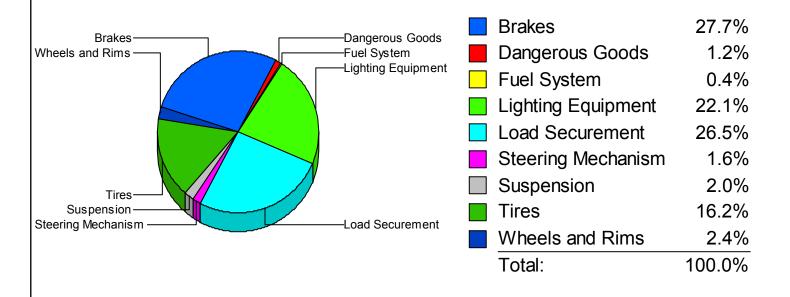
Defect Code	Defect Description	Count
1	FIFTH WHEEL ASSEMBLY - UPPER / LOWER CRACKS	1
6	LEAK, LOCATION	29
7	CROSS MEMBER-BROKEN, SAGGING	4
8	FUEL SYSTEM LEAK, CAP MISSING	5
9	UNSECURED TANK	2
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	188
11	PROJECTING LOAD LAMPS, CLEARANCE	2
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	79
13	DUNNAGE, ANCHOR POINTS, FITTINGS	19
14	CHAMBERS, RESERVOIR, COMPRESSOR	21
15	HOSE, LINES, COUPLING, VALVES	30
16	LINING, DRUMS, DISCS	7
17	T.P. VALVE, L.A. WARNING DEVICE	12
18	AUDIBLE AIR LEAK, PUSH ROD	115
19	SLACK ADJUSTER, CAM SHAFT	16
20	PARK BRAKE, SPRING BRAKE	12
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	88
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	7
23	STEERING WHEEL, COLUMN, GEAR BOX	2
24	FRONT AXLE BEAM, PITMAN ARM	3
25	POWER STEERING, BALL / SOCKET JOINTS	1
27	STEERING SYSTEM, C-DOLLY	2
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	35
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	7
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	4
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	2
33	SIDE PANELS - BAY AREA DAMAGE	1
34	BENT, BROKEN, CRACKED, LOOSE	13
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	5
37	INOPERATIVE, MISSING, DAMAGED	4
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	118
39	DANGEROUS GOODS	3
40	CARGO TANK	1
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	3
54	CENTER BEARING - (CARRIER BEARING)	1
55	DRIVESHAFT TUBE	1
99	MISCELLANEOUS	201

Total Defects: 1,044

Total Reports: 548

## **2018 CVSA INSPECTIONS**

Grouped by Defect Category Category: Out of Service



Brakes	70
Dangerous Goods	3
Fuel System	1
Lighting Equipment	56
Load Securement	67
Steering Mechanism	4
Suspension	5
Tires	41
Wheels and Rims	6

Defect Category: Out of Service

Total Defects: 253
Total Reports: 177
Defects / Reports: 1.43

C5 - Limited Commercial Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: Out of Service Defect Category: Out of Service

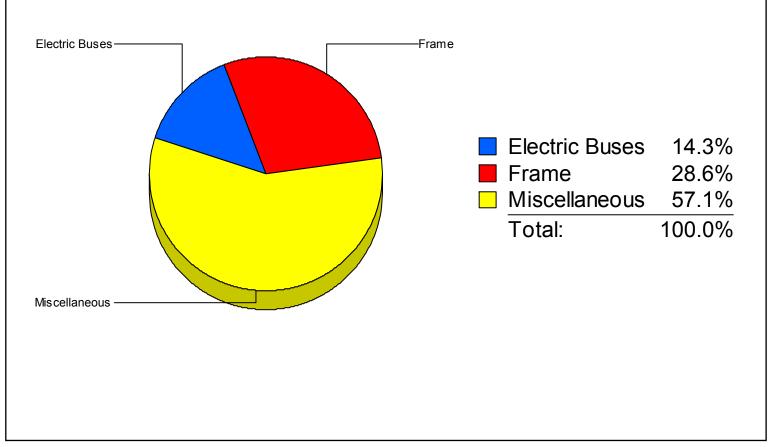
Defect Code	Defect Description	Count
8	FUEL SYSTEM LEAK, CAP MISSING	1
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	56
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	56
13	DUNNAGE, ANCHOR POINTS, FITTINGS	11
14	CHAMBERS, RESERVOIR, COMPRESSOR	9
15	HOSE, LINES, COUPLING, VALVES	5
16	LINING, DRUMS, DISCS	4
17	T.P. VALVE, L.A. WARNING DEVICE	9
18	AUDIBLE AIR LEAK, PUSH ROD	22
19	SLACK ADJUSTER, CAM SHAFT	2
20	PARK BRAKE, SPRING BRAKE	12
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	7
23	STEERING WHEEL, COLUMN, GEAR BOX	1
24	FRONT AXLE BEAM, PITMAN ARM	2
27	STEERING SYSTEM, C-DOLLY	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	1
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	3
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	1
34	BENT, BROKEN, CRACKED, LOOSE	4
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	2
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	41
39	DANGEROUS GOODS	3

Total Defects: 253

Total Reports: 177



Grouped by Defect Category
Category: All



Electric Buses	1
Frame	2
Miscellaneous	4

Defect Category: Both

Total Defects: 7
Total Reports: 25
Defects / Reports: 0.28

P2 - Public Service Bus - Manitoba Registration Only

Manitoba Infrastructure



Category: All	Defect Category: Both

Defect Code	Defect Description	Count
7	CROSS MEMBER-BROKEN, SAGGING	2
42	ELECTICAL (BUSES)	1
57	LOOSE AND/OR TEMPORARY SEATING	1
99	MISCELLANEOUS	3
	Total Defects:	7

**Total Reports:** 25 0.28 Defects / Reports:

## **2018 CVSA INSPECTIONS**

Grouped by Defect Category Category: Out of Service

0.0%

Total: 100.0%

0

Defect Category: Out of Service

Total Defects: 0

Total Reports: 0

P2 - Public Service Bus - Manitoba Registration Only

Manitoba Infrastructure

Manitoba 🐆

Category: Out of Service Defect Category: Out of Service

Defect Code	Defect Description	Count
		0
	Total Defects:	0
	Total Reports:	0
	Defects / Reports:	0.00

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All Cargo Tanks Brakes-**Brakes** 38.8% Windshield Wipers --Coupling Devices Wheels and Rims --Dangerous Goods Cargo Tanks 1.4% Trailer -DriveLine/DriveShaft **Coupling Devices** 0.2% Bodie ires--Exhaust -Frame **Dangerous Goods** 0.9% DriveLine/DriveShaft 0.6% 2.6% Exhaust ☐ Frame 0.6% 0.4% Fuel System Lighting Equipment 15.7% 7.2% Load Securement Miscellaneous 20.9% Suspension -Fuel System Steering Mechanism --Lighting Equipment Steering Mechanism 0.5% Miscellaneous -Load Securement Suspension 4.6% 3.9% **Tires Trailer Bodies** 0.4% Wheels and Rims 0.9% 0.4% Windshield Wipers Total: 100.0%

Brakes	1,137
Cargo Tanks	42
Coupling Devices	7
Dangerous Goods	26
DriveLine/DriveShaft	18
Exhaust	77
Frame	17
Fuel System	11
Lighting Equipment	461
Load Securement	210
Miscellaneous	611
Steering Mechanism	14
Suspension	135
Tires	114
Trailer Bodies	13
Wheels and Rims	26
Windshield Wipers	11

Defect Category: Both

Total Defects: 2,930
Total Reports: 1,965
Defects / Reports: 1.49

P4 - Public Service Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: All Defect Category: Both

Category. All	Delect Category, Botti	
Defect Code	Defect Description	Count
2	HORIZONTAL MOVEMENT, KINGPIN WEAR, LOCK MECHANISM LOOSE	6
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	77
7	CROSS MEMBER-BROKEN, SAGGING	17
8	FUEL SYSTEM LEAK, CAP MISSING	11
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	438
11	PROJECTING LOAD LAMPS, CLEARANCE	23
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	182
13	DUNNAGE, ANCHOR POINTS, FITTINGS	28
14	CHAMBERS, RESERVOIR, COMPRESSOR	79
15	HOSE, LINES, COUPLING, VALVES	126
16	LINING, DRUMS, DISCS	30
17	T.P. VALVE, L.A. WARNING DEVICE	14
18	AUDIBLE AIR LEAK, PUSH ROD	412
19	SLACK ADJUSTER, CAM SHAFT	58
20	PARK BRAKE, SPRING BRAKE	16
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	399
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	3
23	STEERING WHEEL, COLUMN, GEAR BOX	1
24	FRONT AXLE BEAM, PITMAN ARM	8
25	POWER STEERING, BALL / SOCKET JOINTS	3
26	TIE-RODS, DRAG LINKS, NUTS	1
27	STEERING SYSTEM, C-DOLLY	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	73
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	5
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	57
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	7
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	6
34	BENT, BROKEN, CRACKED, LOOSE	18
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	8
37	INOPERATIVE, MISSING, DAMAGED	11
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	114
39	DANGEROUS GOODS	26
40	CARGO TANK	42
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	4
53	UNIVERSAL JOINT	11
54	CENTER BEARING - (CARRIER BEARING)	2
55	DRIVESHAFT TUBE	1
99	MISCELLANEOUS	611

Total Defects: 2,930

Total Reports: 1,965

Defects / Reports: 1.49

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service Cargo Tanks Brakes-Windshield Wipers -Coupling Devices Wheels and Rims --Dangerous Goods **Brakes** 29.7% Trailer -DriveLine/DriveShaft Cargo Tanks 4.1% **Bodies** -Frame -Fuel System **Coupling Devices** 0.2% **Dangerous Goods** 2.2% DriveLine/DriveShaft 0.5% Frame 0.3% 0.5% Fuel System Lighting Equipment 18.2% **Load Securement** 27.4% Steering Mechanism 1.5% Tires Lighting Equipment Suspension 4.9% Suspension Steering Mechanism -Load Securement 8.3% **Tires Trailer Bodies** 0.7% Wheels and Rims 1.4%

Brakes	176
Cargo Tanks	24
Coupling Devices	1
Dangerous Goods	13
DriveLine/DriveShaft	3
Frame	2
Fuel System	3
Lighting Equipment	108
Load Securement	162
Steering Mechanism	9
Suspension	29
Tires	49
Trailer Bodies	4
Wheels and Rims	8
Windshield Wipers	1

Defect Category: Out of Service

Windshield Wipers

Total:

0.2%

100.0%

Total Defects: 592
Total Reports: 455
Defects / Reports: 1.30

P4 - Public Service Truck - Manitoba Registration Only

Manitoba Infrastructure



**Category: Out of Service Defect Category: Out of Service** 

Defect Code	Defect Description	Count
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
7	CROSS MEMBER-BROKEN, SAGGING	2
8	FUEL SYSTEM LEAK, CAP MISSING	3
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	103
11	PROJECTING LOAD LAMPS, CLEARANCE	5
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	138
13	DUNNAGE, ANCHOR POINTS, FITTINGS	24
14	CHAMBERS, RESERVOIR, COMPRESSOR	30
15	HOSE, LINES, COUPLING, VALVES	46
16	LINING, DRUMS, DISCS	7
17	T.P. VALVE, L.A. WARNING DEVICE	12
18	AUDIBLE AIR LEAK, PUSH ROD	63
19	SLACK ADJUSTER, CAM SHAFT	4
20	PARK BRAKE, SPRING BRAKE	12
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	1
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	1
24	FRONT AXLE BEAM, PITMAN ARM	7
25	POWER STEERING, BALL / SOCKET JOINTS	1
27	STEERING SYSTEM, C-DOLLY	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	11
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	1
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	17
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	2
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	2
34	BENT, BROKEN, CRACKED, LOOSE	6
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	2
37	INOPERATIVE, MISSING, DAMAGED	1
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	49
39	DANGEROUS GOODS	13
40	CARGO TANK	24
53	UNIVERSAL JOINT	3
	Total Defects:	592
	Total Panarta	455

**Total Reports:** 455

1.30 Defects / Reports:

#### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: All Cargo Tanks Brakes-**Brakes** 36.3% Windshield Wipers --Coupling Devices Wheels and Rims --Dangerous Goods Cargo Tanks 0.1% Trailer -DriveLine/DriveShaft **Coupling Devices** 0.1% Bodie Fires--Exhaust -Frame **Dangerous Goods** 0.3% -Fuel System DriveLine/DriveShaft 0.6% 3.3% **Exhaust** ☐ Frame 0.2% 0.3% Fuel System Lighting Equipment 18.9% Load Securement 8.4% Miscellaneous 17.8% Suspension Steering Mechanism --Lighting Equipment Steering Mechanism 0.7% Miscellaneous -Load Securement Suspension 5.2% **Tires** 5.8% **Trailer Bodies** 0.7% 0.9% Wheels and Rims 0.3% Windshield Wipers Total: 100.0%

Brakes	351
Cargo Tanks	1
Coupling Devices	1
Dangerous Goods	3
DriveLine/DriveShaft	6
Exhaust	32
Frame	2
Fuel System	3
Lighting Equipment	183
Load Securement	81
Miscellaneous	172
Steering Mechanism	7
Suspension	50
Tires	56
Trailer Bodies	7
Wheels and Rims	9
Windshield Wipers	3

Defect Category: Both

Total Defects: 967
Total Reports: 381
Defects / Reports: 2.54

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Category: All Defect Category: Both

Defect Code	Defect Description	Count
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	32
7	CROSS MEMBER-BROKEN, SAGGING	2
8	FUEL SYSTEM LEAK, CAP MISSING	2
9	UNSECURED TANK	1
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	176
11	PROJECTING LOAD LAMPS, CLEARANCE	7
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	46
13	DUNNAGE, ANCHOR POINTS, FITTINGS	35
14	CHAMBERS, RESERVOIR, COMPRESSOR	20
15	HOSE, LINES, COUPLING, VALVES	32
16	LINING, DRUMS, DISCS	10
17	T.P. VALVE, L.A. WARNING DEVICE	6
18	AUDIBLE AIR LEAK, PUSH ROD	137
19	SLACK ADJUSTER, CAM SHAFT	13
20	PARK BRAKE, SPRING BRAKE	12
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	114
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	7
23	STEERING WHEEL, COLUMN, GEAR BOX	3
24	FRONT AXLE BEAM, PITMAN ARM	1
25	POWER STEERING, BALL / SOCKET JOINTS	2
26	TIE-RODS, DRAG LINKS, NUTS	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	41
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	3
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	6
31	UPPER / LOWER RAIL - BROKEN, CRACKED, BUCKLED, TWISTS, BENDS	2
32	FLOOR / CROSS MEMBERS - BROKEN, DETACHED, SAGGING	4
33	SIDE PANELS - BAY AREA DAMAGE	1
34	BENT, BROKEN, CRACKED, LOOSE	7
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	2
37	INOPERATIVE, MISSING, DAMAGED	3
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	56
39	DANGEROUS GOODS	3
40	CARGO TANK	1
52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	3
53	UNIVERSAL JOINT	2
54	CENTER BEARING - (CARRIER BEARING)	1
99	MISCELLANEOUS	172

Total Defects: 967
Total Reports: 381

Defects / Reports: 2.54

### **2018 CVSA INSPECTIONS Grouped by Defect Category** Category: Out of Service -Cargo Tanks Brakes-Windshield Wipers -Coupling Devices Wheels and Rims --Dangerous Goods Tires--DriveLine/DriveShaft **Brakes** 32.7% -Exhaust Cargo Tanks 0.5% -Fuel System **Coupling Devices** 0.5% Dangerous Goods 1.0% DriveLine/DriveShaft 1.0% 0.5% **Exhaust** 0.5% Lighting Equipment 18.6% Load Securement 32.2% Suspension-1.0% Steering Mechanism Steering Mechanism -Suspension 4.5% Load -Lighting Equipment Securement 6.0% **Tires** 0.5% Wheels and Rims Windshield Wipers 0.5% 100.0% Total:

Brakes	65
Cargo Tanks	1
Coupling Devices	1
Dangerous Goods	2
DriveLine/DriveShaft	2
Exhaust	1
Fuel System	1
Lighting Equipment	37
Load Securement	64
Steering Mechanism	2
Suspension	9
Tires	12
Wheels and Rims	1
Windshield Wipers	1

Defect Category: Out of Service

Total Defects: 199
Total Reports: 124
Defects / Reports: 1.60

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**Category: Out of Service Defect Category: Out of Service** 

12       SPARE TIRE, DEFECTIVE TIE-DOWNS       37         13       DUNNAGE, ANCHOR POINTS, FITTINGS       27         14       CHAMBERS, RESERVOIR, COMPRESSOR       5         15       HOSE, LINES, COUPLING, VALVES       6         16       LINING, DRUMS, DISCS       3         17       T.P. VALVE, L.A. WARNING DEVICE       6         18       AUDIBLE AIR LEAK, PUSH ROD       25         19       SLACK ADJUSTER, CAM SHAFT       1         20       PARK BRAKE, SPRING BRAKE       11         21       FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT       2         22       POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC       6         23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         26       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         31       INOPERATIVE, MISSING, DAMAGED       1	Defect Code	Defect Description	Count
8         FUEL SYSTEM LEAK, CAP MISSING         1           10         HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE         37           12         SPARE TIRE, DEFECTIVE TIE-DOWNS         37           13         DUNNAGE, ANCHOR POINTS, FITTINGS         27           14         CHAMBERS, RESERVOIR, COMPRESSOR         5           15         HOSE, LINES, COUPLING, VALVES         6           16         LINING, DRUMS, DISCS         3           17         T.P. VALVE, L.A. WARNING DEVICE         6           18         AUDIBLE AIR LEAK, PUSH ROD         25           19         SLACK ADJUSTER, CAM SHAFT         1           20         PARK BRAKE, SPRING BRAKE         11           21         FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT         2           22         POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC         6           23         STEERING WHEEL, COLUMN, GEAR BOX         1           25         POWER STEERING, BALL / SOCKET JOINTS         1           28         AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING         7           29         SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING         1           30         AIR SUSPENSION - LEAKING, LOOSE, BROKEN         1           31         INOPERATIVE, MISSI	5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
10         HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE         37           12         SPARE TIRE, DEFECTIVE TIE-DOWNS         37           13         DUNNAGE, ANCHOR POINTS, FITTINGS         27           14         CHAMBERS, RESERVOIR, COMPRESSOR         5           15         HOSE, LINES, COUPLING, VALVES         6           16         LINING, DRUMS, DISCS         3           17         T.P. VALVE, L.A. WARNING DEVICE         6           18         AUDIBLE AIR LEAK, PUSH ROD         25           19         SLACK ADJUSTER, CAM SHAFT         1           20         PARK BRAKE, SPRING BRAKE         11           21         FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT         2           22         POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC         6           23         STEERING WHEEL, COLUMN, GEAR BOX         1           25         POWER STEERING, BALL / SOCKET JOINTS         1           28         AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING         7           29         SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING         1           30         AIR SUSPENSION - LEAKING, LOOSE, BROKEN, MISSING         1           31         NOPERATIVE, MISSING, DAMAGED         1           38         WORN, CUT	6	LEAK, LOCATION	1
12       SPARE TIRE, DEFECTIVE TIE-DOWNS       37         13       DUNNAGE, ANCHOR POINTS, FITTINGS       27         14       CHAMBERS, RESERVOIR, COMPRESSOR       5         15       HOSE, LINES, COUPLING, VALVES       6         16       LINING, DRUSCH, SINCS       3         17       T.P. VALVE, L.A. WARNING DEVICE       6         18       AUDIBLE AIR LEAK, PUSH ROD       25         19       SLACK ADJUSTER, CAM SHAFT       1         20       PARK BRAKE, SPRING BRAKE       11         21       FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT       2         22       POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC       6         23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         26       POWER STEERING, BALL / SOCKET JOINTS       1         27       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39	8	FUEL SYSTEM LEAK, CAP MISSING	1
13         DUNNAGE, ANCHOR POINTS, FITTINGS         27           14         CHAMBERS, RESERVOIR, COMPRESSOR         5           15         HOSE, LINES, COUPLING, VALVES         6           16         LINING, DRUMS, DISCS         3           17         T.P. VALVE, LA. WARNING DEVICE         6           18         AUDIBLE AIR LEAK, PUSH ROD         25           19         SLACK ADJUSTER, CAM SHAFT         1           20         PARK BRAKE, SPRING BRAKE         11           21         FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT         2           22         POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC         6           23         STEERING WHEEL, COLUMN, GEAR BOX         1           25         POWER STEERING, BALL / SOCKET JOINTS         1           28         AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING         7           29         SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING         1           30         AIR SUSPENSION - LEAKING, LOOSE, BROKEN         1           37         INOPERATIVE, MISSING, DAMAGED         1           38         WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED         12           39         DANGEROUS GOODS         2           40         CARGO TANK	10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	37
14         CHAMBERS, RESERVOIR, COMPRESSOR         5           15         HOSE, LINES, COUPLING, VALVES         6           16         LINING, DRUMS, DISCS         3           17         T.P. VALVE, L.A. WARNING DEVICE         6           18         AUDIBLE AIR LEAK, PUSH ROD         25           19         SLACK ADJISTER, CAM SHAFT         1           20         PARK BRAKE, SPRING BRAKE         11           21         FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT         2           22         POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC         6           23         STEERING WHEEL, COLUMN, GEAR BOX         1           25         POWER STEERING, BALL / SOCKET JOINTS         1           28         AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING         7           29         SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING         1           30         AIR SUSPENSION - LEAKING, LOOSE, BROKEN         1           37         INOPERATIVE, MISSING, DAMAGED         1           38         WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED         12           39         DANGEROUS GOODS         2           40         CARGO TANK         1           52         YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE	12	SPARE TIRE, DEFECTIVE TIE-DOWNS	37
15       HOSE, LINES, COUPLING, VALVES       6         16       LINING, DRUMS, DISCS       3         17       T.P. VALVE, L.A. WARNING DEVICE       6         18       AUDIBLE AIR LEAK, PUSH ROD       25         19       SLACK ADJUSTER, CAM SHAFT       1         20       PARK BRAKE, SPRING BRAKE       11         21       FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT       2         22       POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC       6         23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN, MISSING       1         34       BENT, BROKEN, CRACKED, LOOSE, BROKEN       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	13	DUNNAGE, ANCHOR POINTS, FITTINGS	27
16         LINING, DRUMS, DISCS         3           17         T.P. VALVE, L.A. WARNING DEVICE         6           18         AUDIBLE AIR LEAK, PUSH ROD         25           19         SLACK ADJUSTER, CAM SHAFT         1           20         PARK BRAKE, SPRING BRAKE         11           21         FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT         2           22         POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC         6           23         STEERING WHEEL, COLUMN, GEAR BOX         1           25         POWER STEERING, BALL / SOCKET JOINTS         1           28         AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING         7           29         SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING         1           30         AIR SUSPENSION - LEAKING, LOOSE, BROKEN         1           34         BENT, BROKEN, CRACKED, LOOSE, BROKEN         1           37         INOPERATIVE, MISSING, DAMAGED         1           38         WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED         12           39         DANGEROUS GOODS         2           40         CARGO TANK         1           52         YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE         1	14	CHAMBERS, RESERVOIR, COMPRESSOR	5
17         T.P. VALVE, L.A. WARNING DEVICE         6           18         AUDIBLE AIR LEAK, PUSH ROD         25           19         SLACK ADJUSTER, CAM SHAFT         1           20         PARK BRAKE, SPRING BRAKE         11           21         FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT         2           22         POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC         6           23         STEERING WHEEL, COLUMN, GEAR BOX         1           25         POWER STEERING, BALL / SOCKET JOINTS         1           28         AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING         7           29         SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING         1           30         AIR SUSPENSION - LEAKING, LOOSE, BROKEN         1           34         BENT, BROKEN, CRACKED, LOOSE         1           37         INOPERATIVE, MISSING, DAMAGED         1           38         WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED         12           39         DANGEROUS GOODS         2           40         CARGO TANK         1           52         YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE         1	15	HOSE, LINES, COUPLING, VALVES	6
18       AUDIBLE AIR LEAK, PUSH ROD       25         19       SLACK ADJUSTER, CAM SHAFT       1         20       PARK BRAKE, SPRING BRAKE       11         21       FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT       2         22       POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC       6         23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	16	LINING, DRUMS, DISCS	3
19       SLACK ADJUSTER, CAM SHAFT       1         20       PARK BRAKE, SPRING BRAKE       11         21       FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT       2         22       POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC       6         23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	17	T.P. VALVE, L.A. WARNING DEVICE	6
20       PARK BRAKE, SPRING BRAKE       11         21       FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT       2         22       POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC       6         23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	18	AUDIBLE AIR LEAK, PUSH ROD	25
21       FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT       2         22       POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC       6         23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	19	SLACK ADJUSTER, CAM SHAFT	1
22       POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC       6         23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	20	PARK BRAKE, SPRING BRAKE	11
23       STEERING WHEEL, COLUMN, GEAR BOX       1         25       POWER STEERING, BALL / SOCKET JOINTS       1         28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	2
25       POWER STEERING, BALL / SOCKET JOINTS       1         28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	6
28       AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING       7         29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	23	STEERING WHEEL, COLUMN, GEAR BOX	1
29       SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING       1         30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	25	POWER STEERING, BALL / SOCKET JOINTS	1
30       AIR SUSPENSION - LEAKING, LOOSE, BROKEN       1         34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	7
34       BENT, BROKEN, CRACKED, LOOSE       1         37       INOPERATIVE, MISSING, DAMAGED       1         38       WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED       12         39       DANGEROUS GOODS       2         40       CARGO TANK       1         52       YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE       1	29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	1
37         INOPERATIVE, MISSING, DAMAGED         1           38         WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED         12           39         DANGEROUS GOODS         2           40         CARGO TANK         1           52         YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE         1	30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	1
38 WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED  39 DANGEROUS GOODS  40 CARGO TANK  52 YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE  1	34	BENT, BROKEN, CRACKED, LOOSE	1
39         DANGEROUS GOODS         2           40         CARGO TANK         1           52         YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE         1	37	INOPERATIVE, MISSING, DAMAGED	1
40 CARGO TANK 1 52 YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE 1	38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	12
52 YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE 1	39	DANGEROUS GOODS	2
	40	CARGO TANK	1
54 CENTER BEARING - (CARRIER BEARING) 1	52	YOKE ENDS - SLIP YOKE, YOKE SHAFT, TUBE YOKE, END FITTING YOKE	1
	54	CENTER BEARING - (CARRIER BEARING)	1

124 **Total Reports:** 

1.60 Defects / Reports:

# **2018 CVSA INSPECTIONS**

Grouped by Defect Category Category: All

0.0%

Total: 100.0%

0

Defect Category: Both

Total Defects: 0

Total Reports: 0

Defects / Reports: 0.00

X-Plate - Taxi - Manitoba Registration Only

Manitoba Infrastructure

Manitoba 🐆

Category: All Defect Category: Both

Defect Code	Defect Description	Count
		0
	Total Defects:	0
	Total Reports:	0
	Defects / Reports:	0.00

### **2018 CVSA INSPECTIONS**

Grouped by Defect Category Category: Out of Service

0.0%

Total: 100.0%

0

Defect Category: Out of Service

Total Defects: 0

Total Reports: 0

Defects / Reports: 0.00

X-Plate - Taxi - Manitoba Registration Only

Manitoba Infrastructure

Manitoba 🐆

Category: Out of Service Defect Category: Out of Service

Defect Code	Defect Description	Count
		0
	Total Defects:	0
	Total Reports:	0
	Defects / Reports:	0.00



Non NSC - Light Duty Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: All Defect Category: Both

Defect Code	Defect Description	Count
4	PRIMARY ATTACHMENT, CRACKED, LOOSE, WORN, NO SAFELY LOCK, BOLTS MISSING	1
5	SECONDARY ATTACHMENT MISSING, WORN, UNDER SIZE, LENGTH INEFFECTIVE	1
6	LEAK, LOCATION	3
7	CROSS MEMBER-BROKEN, SAGGING	1
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	115
11	PROJECTING LOAD LAMPS, CLEARANCE	2
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	41
13	DUNNAGE, ANCHOR POINTS, FITTINGS	3
14	CHAMBERS, RESERVOIR, COMPRESSOR	1
15	HOSE, LINES, COUPLING, VALVES	3
18	AUDIBLE AIR LEAK, PUSH ROD	5
19	SLACK ADJUSTER, CAM SHAFT	2
20	PARK BRAKE, SPRING BRAKE	19
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	20
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	53
25	POWER STEERING, BALL / SOCKET JOINTS	1
28	AXLE PARTS - CRACKED, LOOSE, BROKEN, MISSING	2
29	SPRING ASSEMBLY - CRACKED, LOOSE, BROKEN, MISSING	1
30	AIR SUSPENSION - LEAKING, LOOSE, BROKEN	2
34	BENT, BROKEN, CRACKED, LOOSE	2
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	4
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	8
39	DANGEROUS GOODS	2
40	CARGO TANK	2
99	MISCELLANEOUS	62

Total Defects: 356

Total Reports: 192

Defects / Reports: 1.85



Non NSC - Light Duty Truck - Manitoba Registration Only

Manitoba Infrastructure



Category: Out of Service Defect Category: Out of Service

Defect Code	Defect Description	Count
4	PRIMARY ATTACHMENT, CRACKED, LOOSE, WORN, NO SAFELY LOCK, BOLTS MISSING	1
10	HEADLAMPS, TAIL LIGHTS, SIGNAL, BRAKE	60
12	SPARE TIRE, DEFECTIVE TIE-DOWNS	37
13	DUNNAGE, ANCHOR POINTS, FITTINGS	3
15	HOSE, LINES, COUPLING, VALVES	1
18	AUDIBLE AIR LEAK, PUSH ROD	2
20	PARK BRAKE, SPRING BRAKE	16
21	FLUID LEAKAGE, LOW LEVEL, LOW PEDAL, WARNING LIGHT	2
22	POWER ASSIST, VAC. RESERVE, ELECTRIC - HYDRAULIC	51
34	BENT, BROKEN, CRACKED, LOOSE	1
35	FASTENERS, STUDS, NUTS - MISSING, BROKEN	1
38	WORN, CUT, FLAT, MIXED, CRACKED, UNDER-SIZED, INFLATED	6
39	DANGEROUS GOODS	2
40	CARGO TANK	1

Total Defects: 184

Total Reports:

111

Defects / Reports:

1.66