

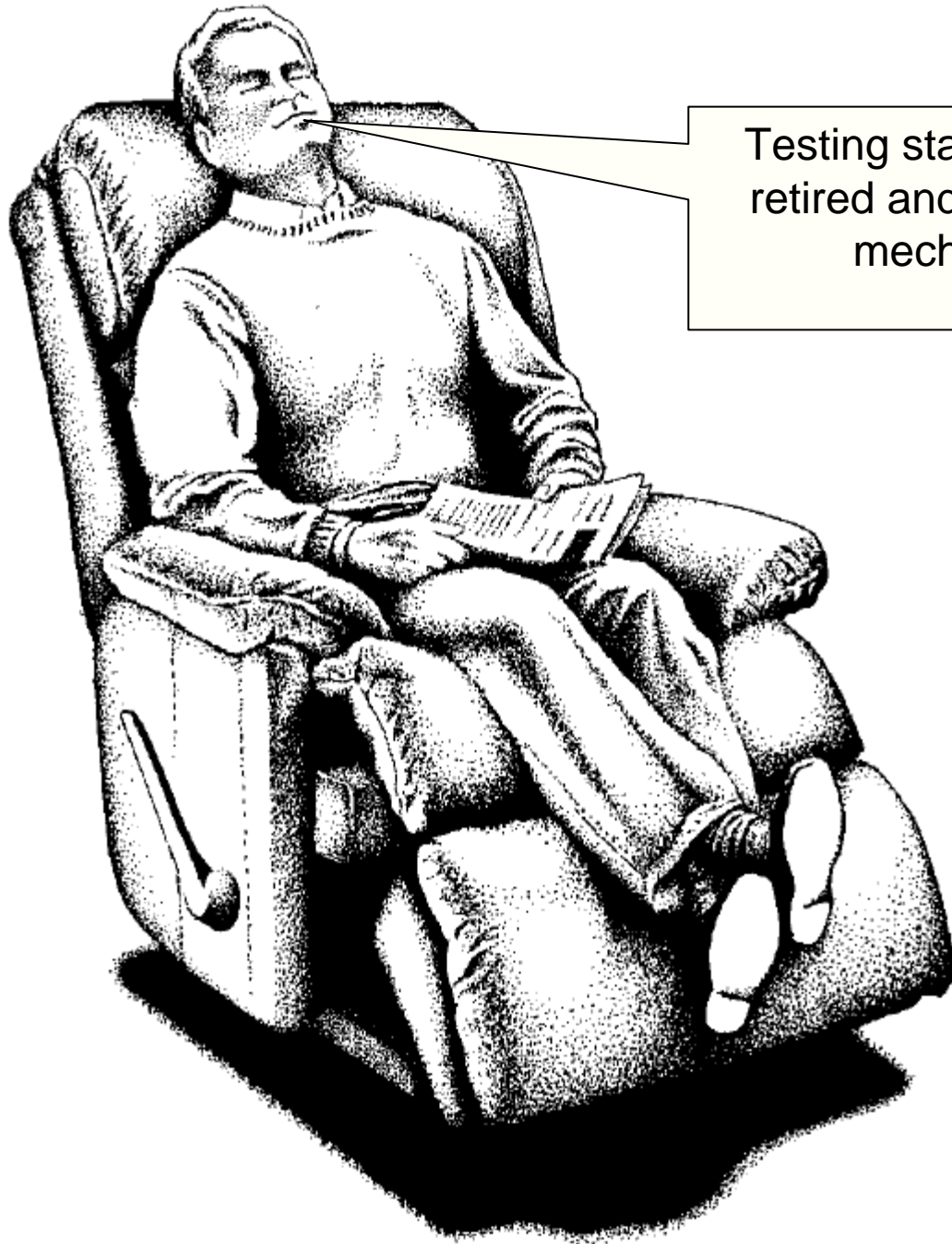
MOVING FORWARD

A Vehicle Inspectors Perspective

From

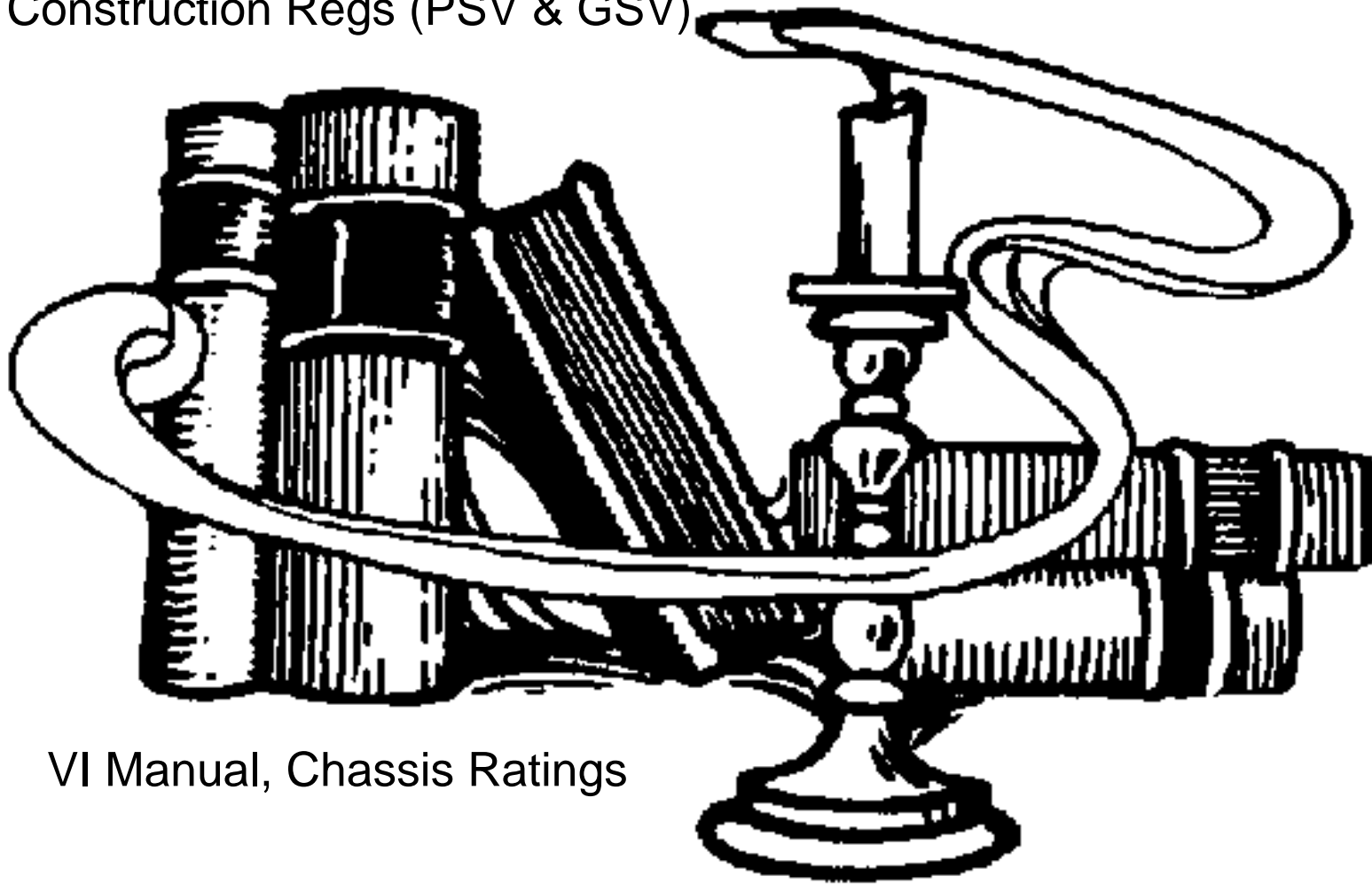
The Coal Face

By
Peter Walton
Business Development Manager
Vehicle Inspection New Zealand



Testing stations a place for
retired and worn out motor
mechanics.....

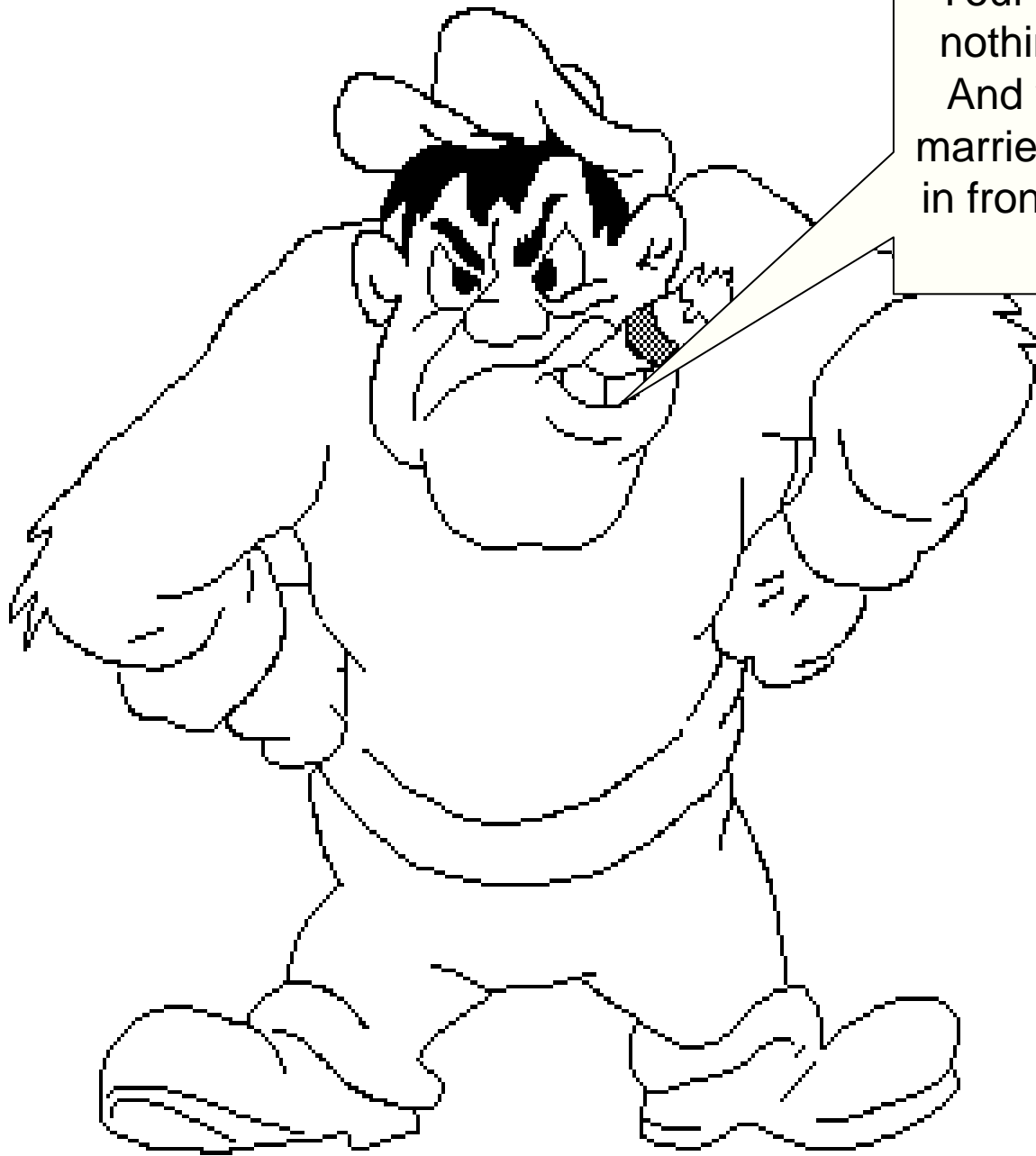
Transport Act, Traffic Regs,
Construction Regs (PSV & GSV)



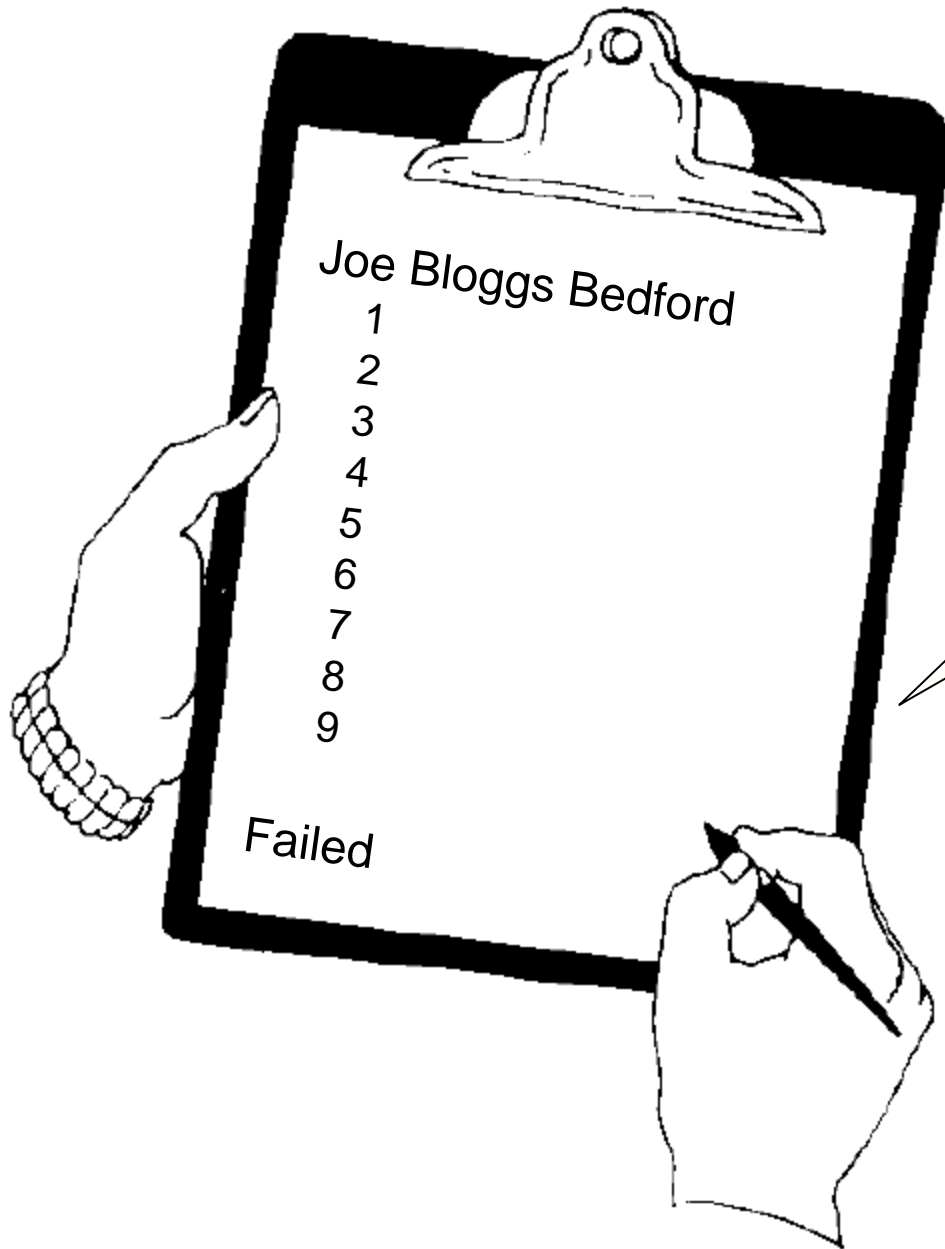
VI Manual, Chassis Ratings

Burning the midnight candle

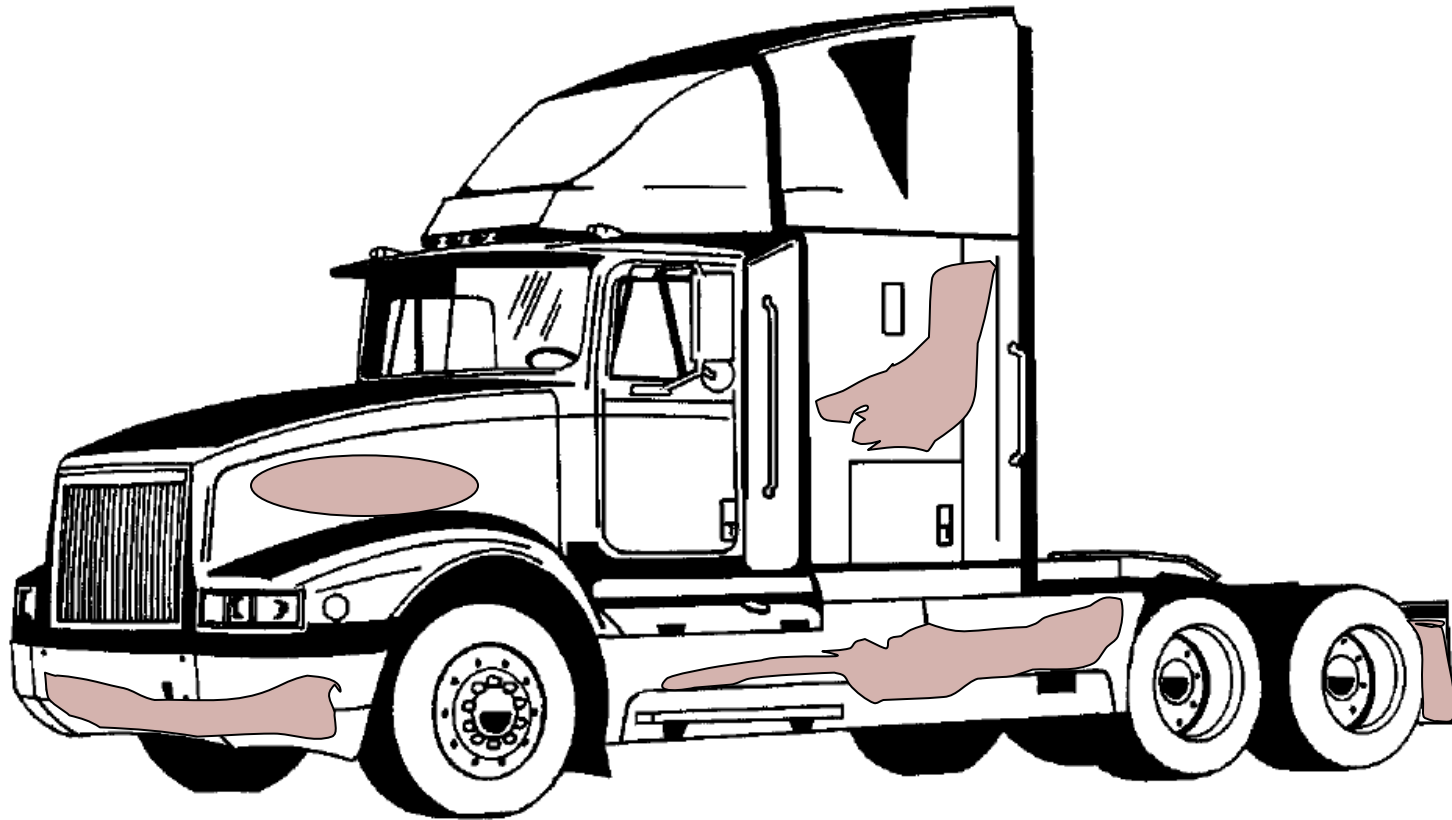




Your failing my vehicle your
nothing but a "F\$UA\$*>>"
And your parents were not
married. Don't cross the road
in front of me and watch your
back.

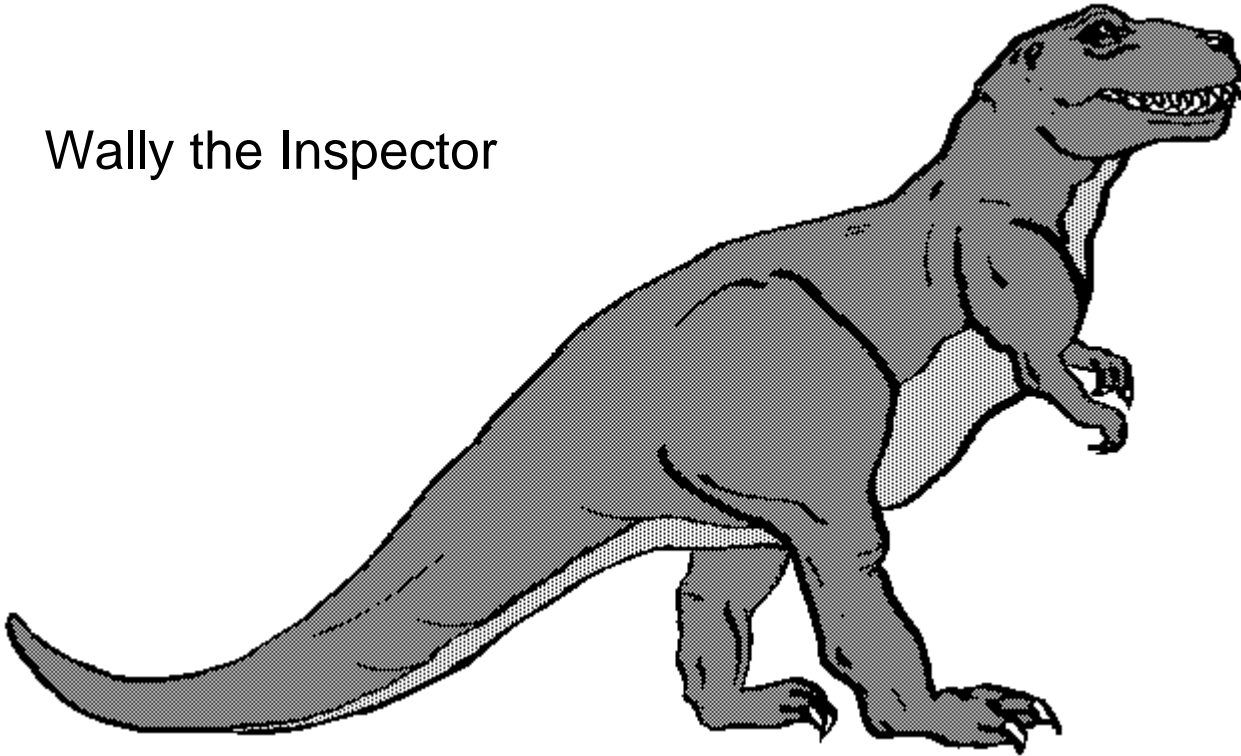


Now lets find the faults !



Dirty Truck, take it away. Re-book it and bring it back clean

Wally the Inspector



30 years as an inspector

Where are we Right Now.

1) inspectors that still want to be policemen.



Where are we Right Now.

- 1) inspectors that still want to be policemen.
- 2) TSDA's find it difficult to recruit staff, although the physical side of the job is not hard the mental side is.
- 3) problems with consistency.
- 4) inconsistency of Roller Brake Machine's.
- 5) workshops that try to dictate and go from station to station and TSD to TSD.
- 6) testing stations used as fault finders.
- 7) Operators cheating the system by putting vehicles through for a pre inspection.
- 8) Operators that cannot afford to ensure proper regular maintenance due financial reasons

- 9) some very good operators but also some that let the system down.
- 10) More testing stations and 4 agencies vying for customers.
- 11) Choice of appointment or drop by depending on location.
- 12) Plain language Rules replacing regulations
- 13) An “extensive consultation process” (Open to all in early stages)
- 14) A reject rate of over 50%

Certificate of Fitness (rejects)

➤ YEAR 2004

➤ YEAR 2005

Number of Vehicles Inspected

❖ 191,517

❖ 198,035

Number of Rejects

❖ 100851

❖ 102152

Reject Rate %

□ 52.65%

□ 51.58%

Certificate of Fitness (faults)

➤ YEAR 2004

➤ YEAR 2005

Number of Vehicles Inspected

❖ 191,517

❖ 198,035

Number of Faults

❖ 142,067

❖ 144,088

Fault Rate %

□ 74.18%

□ 72.76%

➤ YEAR 2004

➤ YEAR 2005

The total defects recorded

❖ 531,937

❖ 494,971

Average faults per vehicle

□ 2.78

□ 2.50

Faults Recorded (supplied by Land Transport NZ)

Component	2004 Total	%	2005 Total	%
Service Brakes	67668	47.63	67966	47.17
Tyres & Rims	37980	26.73	36706	25.47
Park Brake	29195	20.55	25283	17.55
Steering combined	25511	17.95	23343	16.2
Reflectors	14529	10.23	13345	9.26
Sidelamps	14439	10.16	13840	9.61
Stop Lights	13221	9.31	12133	8.42
Wheel Bearings	12762	8.98	12527	8.69
Pipes/hoses	10470	7.37	8910	6.18

MOVING FORWARD

Legal requirements need to be structured in order of the probability of danger and scored accordingly.

Service Brakes

Steering

Suspension

Park Brake

This is an instant failure must be returned to originating testing station for the recheck. The vehicle is not to be used prior to passing recheck.

This is to act as a penalty for not carrying out vehicle maintenance on a regular basis.

Repairs to be carried out within 28 days or another full inspection.

Cab Rust

Chassis heave

Body Damage

Sign off by TSDA without carrying out physical recheck on strength of signed statement from approved body repair workshop.

Repairs to be carried out within 28 days or another full inspection.

Exhaust

Oil leaks

Sign off by TSDA without carrying out physical recheck on strength of signed statement from approved Mechanical workshop.

Repairs to be carried out within 28 days or another full inspection.

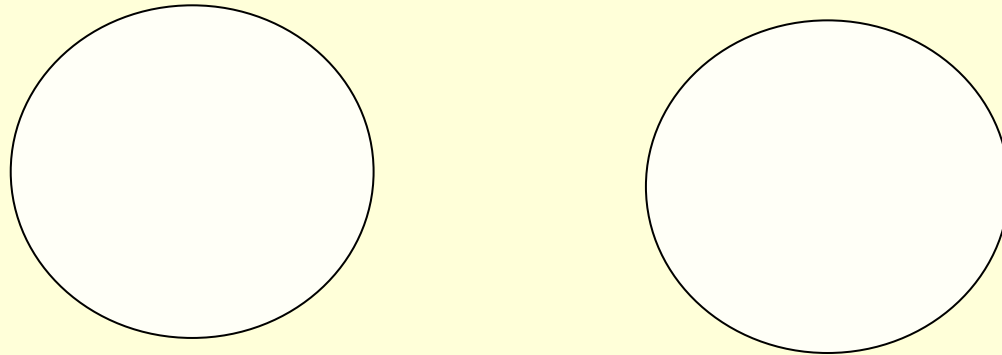
Load anchorage

Draw beam / drawbar

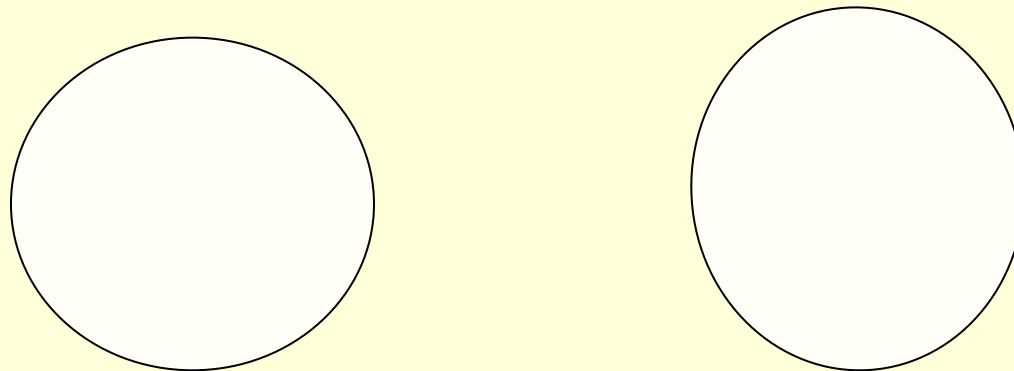
Sign off by TSDA without carrying out physical recheck on strength of signed statement from approved engineer.

Repairs to be carried out within 28 days or another full inspection.

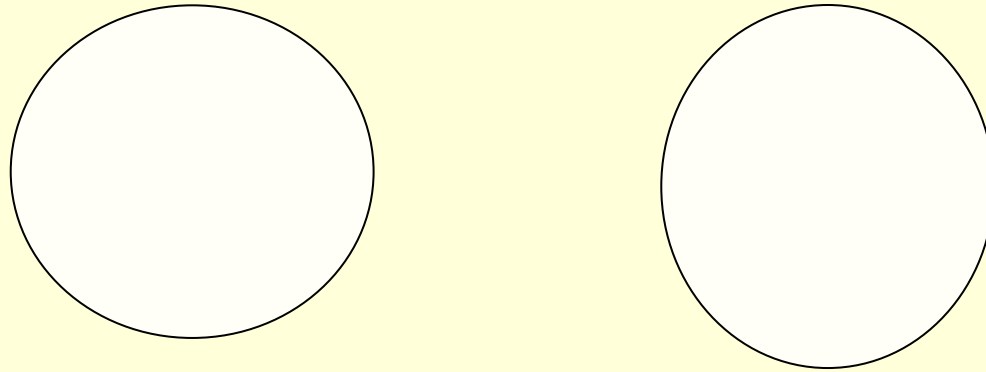
Oval drums on an RBM



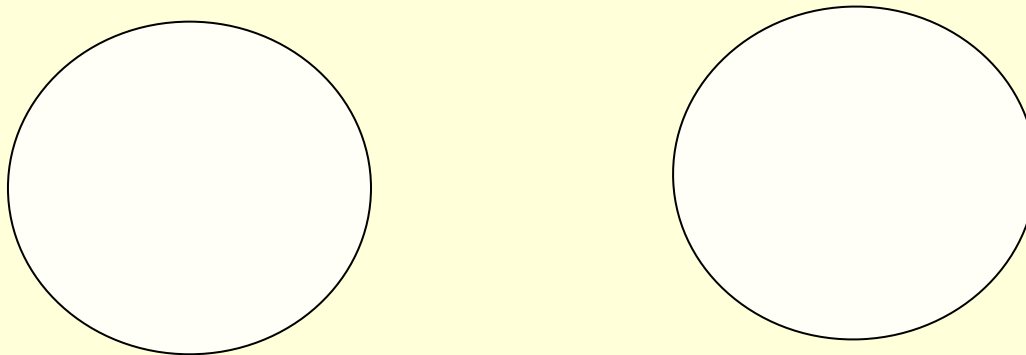
If in sync when the rollers start
they will end up out of sync for the
test resulting in a fail



Oval drums on an RBM



If out of sync when the rollers start
they will end up in sync for the test
resulting in a pass



FAULTS BY TYPE AND TOTAL IN DESCENDING ORDER			
Fault Component	Total		
SERVICE BRAKES	67966		47.17%
TYRES AND RIMS	36706		25.47%
PARK BRAKE	25283		17.55%
SIDELAMPS	13840		9.61%
REFLECTORS	13345		9.26%
WHEEL BEARINGS	12527		8.69%
STOP LIGHTS	12133		8.42%
WIPERS/WASHERS	11593		8.05%
EXHAUST	11490		7.97%
INDICATORS	10977		7.62%
DIP BEAM	10553		7.32%
BODY PANELS	9714		6.74%
HIGH BEAM	9710		6.74%
NUMBER PLATE LIGHT	9540		6.62%
PIPES/HOSES/CNCTS	8910		6.18%
DECK/LOAD/ANCH	7722		5.36%
SEATBELTS	7120		4.94%
WINDSCREEN	6946		4.82%
TARE WEIGHT	6698		4.65%

MUDGUARDS	6640	4.61%
AUXILIARY LIGHTS	6395	4.44%
JOINTS/LINES/LINKS	6287	4.36%
DRIVESHAFT/UNIVERSAL	6259	4.34%
SUSPENSION PINS/BUSHES	6021	4.18%
BRAKE LININGS	5929	4.11%
CROSS MEMBERS	5714	3.97%
DRAGLINE AND JOINTS	5346	3.71%
TIERODS AND JOINTS	5123	3.56%
SHOCK ABSORBER	4966	3.45%
DRAWBAR/TOWBAR	4676	3.25%
OTHER LIGHTS	4626	3.21%
CHASSIS RAILS	4625	3.21%
TRAY/BODY/HINGE	4609	3.20%
AUXILIARY WARNING DEVICE	4478	3.11%
FIFTH WHEEL	4354	3.02%
STEERING BOX OR RACK AND PINION	3978	2.76%
KINGPINS/THRUSTS	3858	2.68%
TRAN SERV LICN	3836	2.66%
C O L	3736	2.59%

W/C CHAMBERS	3731	2.59%
SPRINGS	3466	2.41%
DOORS HINGES	3443	2.39%
INTERNAL BRAKE CONTROLS	3426	2.38%
SEATS	3258	2.26%
AUXILIARY VALVES	3249	2.25%
SHACKLES	3231	2.24%
INTERIOR WARNING DEVICE	2985	2.07%
U-BOLTS	2978	2.07%
TANKS	2944	2.04%
HANGERS/SLIPPERS	2942	2.04%
FUEL	2827	1.96%
GAUGES	2783	1.93%
COUPLING	2780	1.93%
POWER STEERING	2609	1.81%
BRAKE VALVES	2590	1.80%
SADDLE ROCKER	2443	1.70%
TEST(AUX.)	2391	1.66%
DRAWBAR	2304	1.60%
DANGER FITTING	2229	1.55%

SLACK ADJUSTERS	2112	1.47%
KING PIN	2069	1.44%
EXTERNAL MIRROR	1995	1.38%
NAME AND ADDRESS	1931	1.34%
EYE/BUSH	1646	1.14%
TAXI METER	1425	0.99%
S CAM BUSHES	1411	0.98%
TRANSMISSION	1401	0.97%
REVERSING LIGHTS	1225	0.85%
DRUMS/DISCS	1209	0.84%
MOTOR	1110	0.77%
SPEEDOMETER	1101	0.76%
INTERNAL DOOR HANDLES/CONTROLS	1081	0.75%
EMERGENCY EXIT	1078	0.75%
TEST(RECOVERY)	1070	0.74%
FIRE EXIT	1034	0.72%
STEERING RELAY	904	0.63%
GLAZING	882	0.61%
BRAKE CODE	870	0.60%
TEST(APPS)	864	0.60%

SUSPENSION LEG	823	0.57%
STEERING COLUMN	795	0.55%
INTERIOR SIGNS	747	0.52%
HOIST	716	0.50%
STEERING ARMS	680	0.47%
CAB MOUNTS	678	0.47%
HANDLES/LOCKS	658	0.46%
SIGNS	625	0.43%
STEERING COUPLING	614	0.43%
SUNVISOR	610	0.42%
MUDFLAPS	590	0.41%
TRAVEL INDICATOR	574	0.40%
AIRBAG	548	0.38%
BRAKE RODS	536	0.37%
AXLE	494	0.34%
RUBBER	453	0.31%
INTERIOR LIGHTS	427	0.30%
LTSA APPROVAL	408	0.28%
LOCK DEVICE	407	0.28%
BRAKE MASTER CYLINDER	405	0.28%

M/C & BOOSTER	395	0.27%
STEERING WHEEL	382	0.27%
MODIFICATIONS	364	0.25%
FLUID PUMP	336	0.23%
STEPS	270	0.19%
MIRROR	218	0.15%
WINDOW OPERATION	213	0.15%
NO SRT CERTIFICATION	204	0.14%
VENT/DEMIST	193	0.13%
PANELS/PROTRUSION	192	0.13%
DIMENSION	190	0.13%
FREIGHT RESTRAINT	138	0.10%
HAND RAILS	131	0.09%
FLOOR COVERING	104	0.07%
TV MONITOR	81	0.06%
STRUCTURE	79	0.05%
PASS SIGN/MIRROR	76	0.05%
HUBODOMETER	70	0.05%
COMPRESSOR	68	0.05%
DRIVESHAFT SFGD	50	0.03%

SUSPENSION SAFEGRD	44		0.03%
PRESENT VEH IN INSPECTABLE COND	37		0.03%
HEADLAMP	25		0.02%
ROLLOVER CERTIFICATE	22		0.02%
STEERING DROP ARM	10		0.01%
AIRBAG SELF CHK	9		0.01%
PLEASE CONTACT LAST INSPECTOR	8		0.01%
ABS SELF CHECK	7		0.00%
FOOTRESTS	4		0.00%
INT SAFETY PADDING	3		0.00%
HIGH STOP LIGHT	3		0.00%
HEAD RESTRAINTS	1		0.00%