



## Pneumatic Bulk Tanker Replacement

### Introduction

The current fleet of pneumatic tankers in the Building and Construction Vertical has been assessed to identify the units that may be due for replacement in the current financial year (F2015).

After inspection of the tanker, the following problems were identified as at risk.

- Material Fatigue
- Corrosion (Steel only)

Although fatigue has been clearly identified in all the tankers in this report, it can still be repaired (at excessive cost and downtime) and can be operated further.

Corrosion, however chemically removes material from the pressure vessel and makes the tanker unsafe for pressurisation.

The following was also identified as contributing factors to consider withdrawal:

- Old corporate branding. (R45,000 to replace)
- Front mounted blower (Excessive structural stresses) (R75,000 to refit)
- Short wheel base (9,5 m vs 10m) as per the revised legislation (R130,000 to extend)

Each tanker's criticality has been ranked into high and medium to indicate the priority required for withdrawal.

### Executive Summary

The following tankers are recommended to be withdrawn.

<i>Fleet Number</i>	<i>NBV (Nov)</i>	<i>Description</i>	<i>Age of tanker</i>	<i>Priority</i>	<i>Branding</i>	<i>Wheelbase</i>	<i>Blower</i>
43112	R 60 197.16	Inter Link Rear Tanker	19	Immediate			
43111	R 33 253.63	Inter Link Front Tanker	19	Immediate			
43106	R 41 029.65	Inter Link Rear Tanker	19	Immediate			
43105	R 103 718.23	Inter Link Front Tanker	19	Immediate			
43016	R -	Inter Link Rear Tanker	19	Immediate			
43015	R -	Inter Link Front Tanker	19	Immediate			
22013	R -	Hercules	19	Immediate	BW Log	9.5m	Rear
12717	R 100 708.38	Kraaifontein	16	Immediate	Old	10m	Front
11305	R 134 338.37	Tete	15	Immediate	Old	10m	Front
11151	R 74 853.34	Hercules	14	Immediate	Old	10m	Front

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22604	R	89 982.22	Port Elizabeth	18	6 to 12 months	Old	9.5m	Front
DBMLB004	R	-	Kraaifontein	15	6 to 12 months	Old	9.5m	Front
D12705	R	87 538.19	Kraaifontein	17	6 to 12 months	Old	9.5m	Front
D11307	R	146 248.75	Port Elizabeth	15	6 to 12 months	Old	9.5m	Front
D22601	R	87 854.31	Kraaifontein	13	6 to 12 months	Old	9.5m	Front
D10223	R	113 650.00	George	14	6 to 12 months	Old	9.5m	Front
D12722	R	173 604.17	George	14	6 to 12 months	Old	9.5m	Front
11097	R	153 368.00	Botswana	14	6 to 12 months	Old	10m	Front
11091	R	140 631.62	Slurry	14	6 to 12 months	Old	10m	Front
DBMLB010	R	120 504.21	Kraaifontein	15	6 to 12 months	Old	10m	Front
D12716	R	77 683.88	Kraaifontein	16	6 to 12 months	Old	10m	Front
D10212	R	69 548.63	Port Elizabeth	18	6 to 12 months	Old	10m	Front
11149	R	4 001.00	Slurry	15	6 to 12 months	Old	10m	Front
11150	R	192 665.16	Dwaalboom	14	6 to 12 months	New	10m	Front
22602	R	87 607.86	Dwaalboom	17	6 to 12 months	New	10m	Front
12719	R	140 402.74	Dwaalboom	15	6 to 12 months	New	10m	Front
12708	R	30 000.00	Engen	17	6 to 12 months	Engen	10m	Rear
D22600	R	110 181.50	Port Elizabeth	18	6 to 12 months	New	9.5m	Front
D12724	R	153 041.67	Port Elizabeth	16	6 to 12 months	New	9.5m	Front
22605	R	89 760.89	Slurry	15				
12715	R	74 993.22	Tete	16				
11094	R	137 613.65	Slurry	14				
11095	R	153 368.00	Botswana	14				



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### Description

#### 1.1 Tandem/Tandem Steel Interlink (43111 & 2)

Criticality rating - High

	
	
	Repeated failures due to fatigue

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Repeated failures due to fatigue



Corrosion in structure

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Repeated repairs in  
structure due to fatigue



Repeated repairs due to  
fatigue

### Net book values

43111 – R33,253.63

43112 - R60,197.16

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