

FINAL PRODUCT TEST INSPECTION REPORT

1 Applicant Fort Vale Engineering Ltd AAR No PRD139512
 Address Calder Vale Business park, Simonstone Lane, Simonstone, UK, BB12 7ND AAR Docket No _____
 2 Manufacturer Fort Vale Engineering Ltd AAR Service Trial No ST-445
 Address Calder Vale Business park, Simonstone Lane, Simonstone, UK, BB12 7ND Date 09-26-13

3 Description of device 130mm Supaflo Relief Valve
 4 Device designation or model no. OR4/XXXXX00130A, OR4/XXXXX00130B,
 5 Total number of devices in service 25/10000 6. Number of devices for inspection 5
 7 Service data for service equipment under this inspection
 Total load/unload cycles and average 29 Total loaded mileage, and average 47670
 Total service time, and average 2.5 years


	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
8 Teardown data					
From car number	TILX 352322	TILX 352324	TILX 352328	TILX 352334	TILX 352335
Last loading	Petroleum Crude Oil	Petroleum Crude Oil	Petroleum Crude Oil	Petroleum Crude Oil	Petroleum Crude Oil
Model number	OR4/B07500130B	OR4/B07500130B	OR4/B07500130B	OR4/B07500130B	OR4/B07500130B
Serial number	1481877	1471412	1471413	1481891	1471415
Test Pressure, psi (kPa)					
Test temperature, °F (°C)	75°F (24°C)	75°F (24°C)	75°F (24°C)	75°F (24°C)	75°F (24°C)
Test medium	Air	Air	Air	Air	Air
STD psi, (kPa)	75 8,76,74 9	75 5,75 6,76 0	75 9,76 0,76 4	74 0,74,74	75 6,75 5,75 6
Vapor tight, psi (kPa)	68 3,71 0,67 2	69 5,70 9,73 5	67 7,64 6,71 0	63 0,71,71	69 9,70 2,67 0
Test remarks	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable
Physical condition	As Received	As Received	As Received	As Received	As Received
Compare critical final dimensions to original	In tolerance	In tolerance	In tolerance	In tolerance	In tolerance
9. Drawing numbers (ref Form AAR 4-3 or AAR 4-5)					
Revisions made					
Revision date					
	see attached				
	see attached				


10 Conclusions No issues with the first 4 valves however, the 5th valve cap galled and required cutting to remove. The valves were full of grit which could have caused the galling. All valve tested correctly with STP and VTP.

11 Recommendations to Tank Car Committee APPROVAL GRANTED FOR NOTED RELIEF VALVE.

12 CERTIFICATION

The above data is correct and complies with the AAR Specifications for Tank Cars, Appendix A. Devices tested conform to the drawings listed above.

MANUFACTURER or APPLICANT

 (Signature)
 Title Design and Development Director
 Company Fort Vale Engineering Ltd

INDEPENDENT OBSERVER/ QA MANAGER

 (Signature)
 Title BOE CHIEF INSPECTOR
 Company AAR/TTCT

13 APPROVAL AAR Tank Car Committee

Date approved DEC 02 2016


 (Signature) on behalf of Tank Car Committee