## **OIL ANALYSIS REPORT**

### TEDD PATTERSON VOLVO PENTA A277747 - DIESEL ENGINE

Sample No: VPA050908

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Sample Number		VPA050908	VPA028689	 
Sample Date		18 Feb 2024	01 Dec 2022	 
Machine Hours		0	1173	 
Oil Hours		75	20	 
Oil Changed		N/A	Changed	 
Sample Status		NORMAL	NORMAL	 
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.2</b>	13.6	 
Base Number (BN)	mg KOH/g	<b>10.1</b>	11.5	 
Oxidation (PA)	%	56	59	 
CONTAMINATION				
Water	%	NEG	NEG	 
Soot %	%	0.2	0.1	 
Nitration (PA)	%	44	44	 
Sulfation (PA)	%	52	56	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<1.0	 
Silicon	ppm	5	6	 
Sodium	ppm	6	11	 
Potassium	ppm	2	0	 
WEAR METALS				
Iron	ppm	<b>1</b> 2	7	 
Copper	ppm	6	3	 
Lead	ppm	<b>■</b> <1	0	 
Tin	ppm	0	0	 
Aluminum	ppm	8	14	 
Chromium	ppm	<b>□</b> <1	□ <1	 
Molybdenum	ppm	57	59	 
Nickel	ppm	2	0	 
Titanium	ppm	<b>■</b> <1	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>0</b>	□ <1	 
Vanadium	ppm	0	0	 
ADDITIVES				
Calcium	ppm	<b>1021</b>	1099	 
Magnesium	ppm	922	955	 
Zinc	ppm	1186	1263	 
Phosphorus	ppm	<b>1033</b>	1040	 
Barium	ppm	<b>1</b> 0	0	 
Boron	ppm	3	0	 

**Maritime Fabrications Inc** 

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#### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 VP153319

 Unique No:
 10885579

 Signed:
 Don Baldridge

 Report Date:
 20 Feb 2024

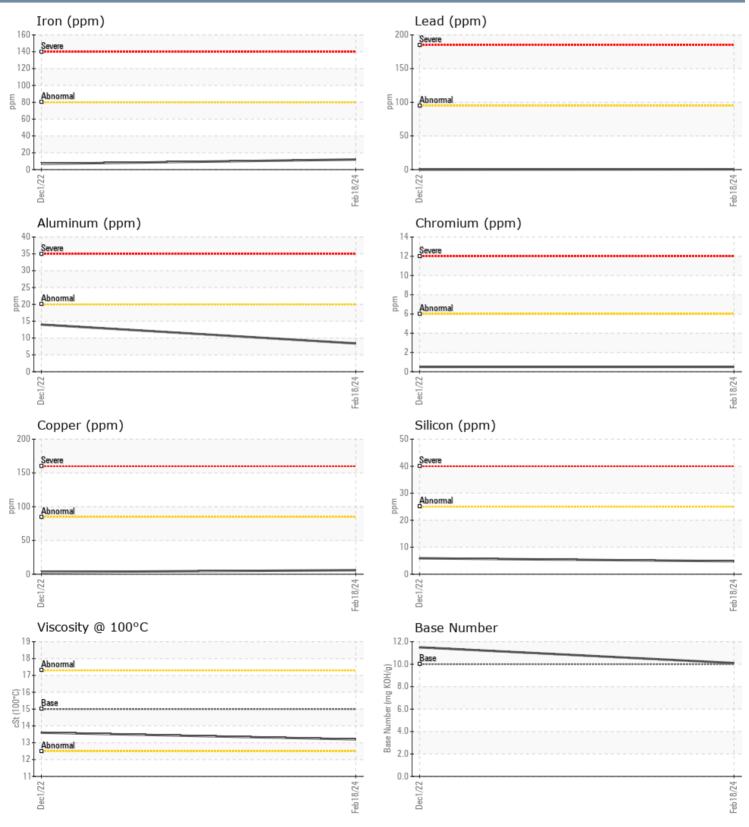
Contact/Location: Mark Crandall - VP153319



# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP153319 [WUSCAR] 06092726 (Generated: 02/22/2024 11:21:11) Rev: 1

Contact/Location: Mark Crandall - VP153319