OIL ANALYSIS REPORT

MYLES JB VOLVO PENTA 7011485269 - STARBOARD DIESEL ENGINE

Sample No: VPA036951

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

Sample Number		VPA036951	VPA044717	
Sample Date		03 Dec 2023	05 Nov 2022	
Machine Hours		225	193	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	ATTENTION	
OIL CONDITION				
Visc @ 100°C	cSt	13.5	▲ 11.0	
Base Number (BN)	mg KOH/g	8.3	8.8	
Oxidation (PA)	%	63	62	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	■ 0.2	■ 0.7	
Nitration (PA)	%	50	65	
Sulfation (PA)	%	55	57	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	1.5	
Silicon	ppm	5	52	
Sodium	ppm	9	3	
Potassium	ppm	6	4	
WEAR METALS				
Iron	ppm	26	31	
Copper	ppm	2	▲ 156	
Lead	ppm	0	3	
Tin	ppm	0	4	
Aluminum	ppm	7	3	
Chromium	ppm	<1	1	
Molybdenum	ppm	51	11	
Nickel	ppm	0	3	
Titanium	ppm	0	 <1	
Silver	ppm	0	2	
Manganese	ppm	 <1	2	
Vanadium	ppm	0	<1	
ADDITIVES				
Calcium	ppm	1547	2529	
Magnesium	ppm	616	14	
Zinc	ppm	1254	1156	
Phosphorus	ppm	1042	953	
Barium	ppm	0	0	
Boron	ppm	1 5	45	

VOLVO PENTA

Point Judith Marina 360 Gooseberry Road WAKEFIELD, RI US 02879 Contact: MATT ST. ANGELO service@pjmarina.com;canastasio@wearcheckusa.com T: (401)789-7189 F: (401)783-5350

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 acceptable for the time in service.

 Depot:
 VP153811

 Unique No:
 10777222

 Signed:
 Angela Borella

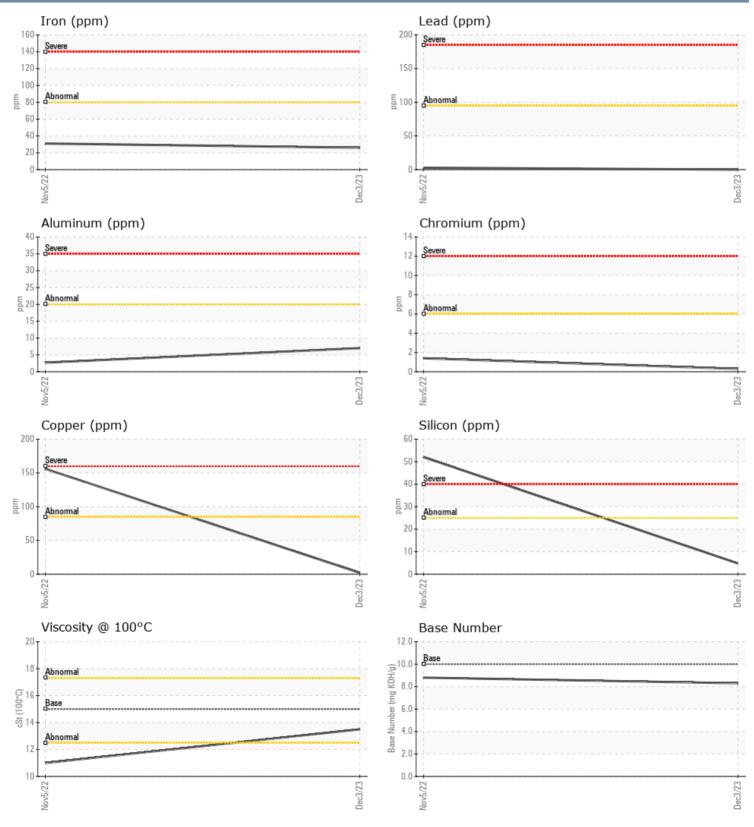
 Report Date:
 08 Dec 2023

Contact/Location: MATT ST. ANGELO - VP153811

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GRAPHS



Report Id: VP153811 [WUSCAR] 06027431 (Generated: 12/11/2023 13:17:25) Rev: 1

Contact/Location: MATT ST. ANGELO - VP153811