OIL ANALYSIS REPORT

WHIMS 533998 VOLVO PENTA A 1089071 - PORT DIESEL ENGINE

Sample No: VPA060717

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

Sample Number		VPA060717	VPA056995	
Sample Date		13 Feb 2024	16 Aug 2023	
Machine Hours		1027	968	
Oil Hours		0	0	
Oil Changed		N/A	Not Changd	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.3	14.2	
Base Number (BN)	mg KOH/g	10.0	8.9	
Oxidation (PA)	%	56	68	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	0.3	1.1	
Nitration (PA)	%	45	77	
Sulfation (PA)	%	52	60	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	5	7	
Sodium	ppm	□ <1	3	
Potassium	ppm	2	 <1	
WEAR METALS				
Iron	ppm	9	1 9	
Copper	ppm	4	11	
Lead	ppm	□ <1	1	
Tin	ppm	0	 <1	
Aluminum	ppm	1	3	
Chromium	ppm	■ <1	<1	
Molybdenum	ppm	57	49	
Nickel	ppm	■ <1	1	
Titanium	ppm	 <1	 <1	
Silver	ppm	0	0	
Manganese	ppm	□0	□<1	
Vanadium	ppm	0	<1	
ADDITIVES				
Calcium	ppm	968	1217	
Magnesium	ppm	876	794	
Zinc	ppm	1111	905	
Phosphorus	ppm	868	722	
Barium	ppm	■ 11 ■ 6	□ 0 □ 20	
Boron	ppm			

Jas Marine Service Inc

3131 SW 2Nd Ave. FORT LAUDERDALE, FL US 33315 Contact: JASON TOLEDO jason@jasmarine.com T: (954)462-1112 F:

Diagnosis

No corrective action is recommended at this time. 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:
 VP426065

 Unique No:
 10882776

 Signed:
 Doug Bogart

 Report Date:
 16 Feb 2024

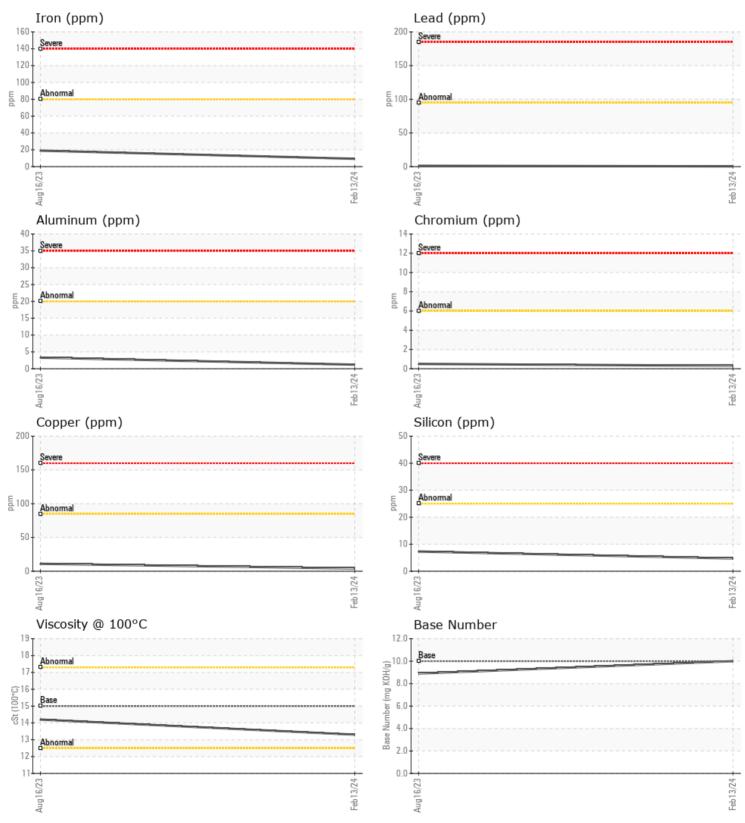
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GRAPHS



Report Id: VP426065 [WUSCAR] 06089923 (Generated: 02/16/2024 10:05:55) Rev: 1

Contact/Location: JASON TOLEDO - VP426065