OIL ANALYSIS REPORT

R16874 VOLVO PENTA A179692 - STARBOARD DIESEL ENGINE

Sample No: VPA055546

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

Sample Number		VPA055546	 	
Sample Date		05 Feb 2024	 	
Machine Hours		1537	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.7	 	
Base Number (BN)	mg KOH/g	9.9	 	
Oxidation (PA)	%	55	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0	 	
Nitration (PA)	%	40	 	
Sulfation (PA)	%	51	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	4	 	
Sodium	ppm	□ <1	 	
Potassium	ppm	2	 	
WEAR METALS	222	7	 	
	ppm	□ <1	 	
Copper Lead	ppm	■<1 ■<1	 	
Tin	ppm ppm		 	
Aluminum		1	 	
Chromium	ppm ppm	0	 	
Molybdenum	ppm	6 0	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	0	 	
Silver	ppm	■ <1	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1 033	 	
	ppm	1003	 	
		1359	 	
Magnesium	maa	1000		
Magnesium Zinc	ppm ppm		 	
Magnesium	ppm ppm ppm	1339 1121 0		

VOLVO PENTA

Western Branch Diesel, Inc. - VP527273 3504 SHIPWRIGHT ST PORTSMOUTH, VA US 23703 Contact: GEORGE ROGIC grogic@wbdiesel.com T: E-

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:
 VP155396

 Unique No:
 10863240

 Signed:
 Doug Bogart

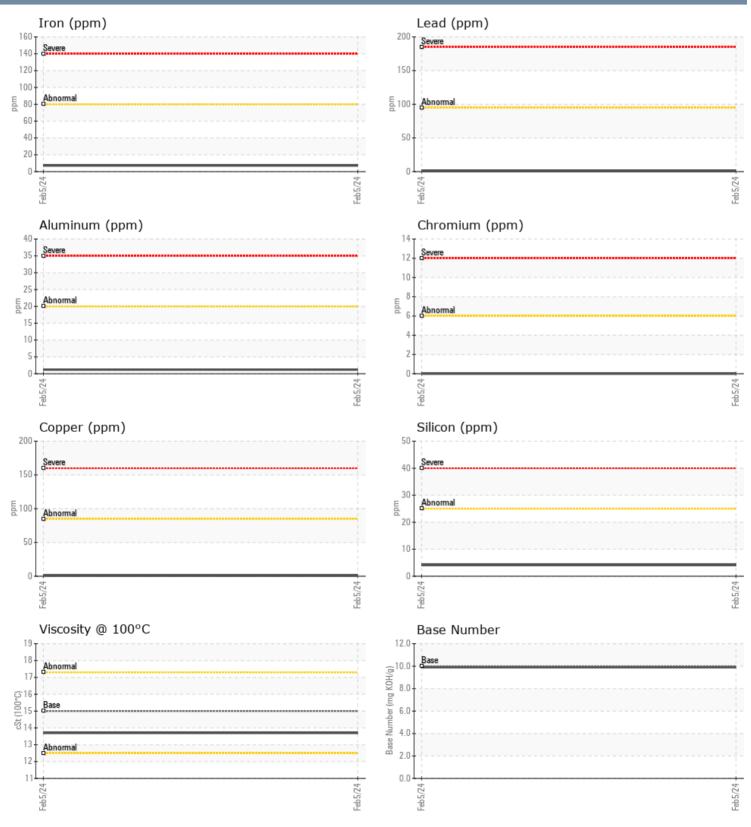
 Report Date:
 09 Feb 2024

Contact/Location: GEORGE ROGIC - VP155396

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GRAPHS



Report Id: VP155396 [WUSCAR] 06081149 (Generated: 02/09/2024 13:01:21) Rev: 1

Contact/Location: GEORGE ROGIC - VP155396