OIL ANALYSIS REPORT

RICK PAUL VOLVO PENTA 2006016301 - STARBOARD DIESEL ENGINE

Sample No: VPA060221

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

Sample Number		VPA060221	 	
Sample Date		16 Nov 2023	 	 FLO
Machine Hours		607	 	 112
Oil Hours		6	 	 PAI
Oil Changed		Not Changd	 	 US
Sample Status		NORMAL	 	 Cor
				ri.ro T: (
OIL CONDITION				F:
/isc @ 100°C	cSt	13.7	 	
Base Number (BN)	mg KOH/g	10.3	 	
Oxidation (PA)	%	58	 	 Di
CONTAMINATION				Re to
CONTAMINATION				are
Water	%	NEG	 	 an
Soot %	%	0.1	 	 res
Nitration (PA)	%	42	 	 alk
Sulfation (PA)	%	52	 	 CO
Glycol	%	NEG	 	 the
Fuel	%	<1.0	 	
Silicon	ppm	4	 	
Sodium	ppm	∎1	 	
Potassium	ppm	1	 	
WEAR METALS				
ron	ppm	5	 	
Copper	ppm	1	 	
Lead	ppm	0	 	
Tin	ppm	_ _<1	 	
Aluminum	ppm	1	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	5 4	 	
Nickel	ppm	0	 	
Fitanium	ppm		 	
Silver	ppm	0	 	
Manganese	ppm	■ <1	 	
/anadium	ppm	<1	 	
ADDITIVES				
		1000		
Calcium	ppm		 	
Magnesium	ppm	895	 	
	ppm	1209	 	
Zinc Phosphorus Barium	ppm ppm	□ 1005 □ 0	 	

LORIDA DETROIT DIESEL - 531006 - 1125774

128 CHESTNUT AVE ANAMA CITY, FL JS 32401 Contact: RICHARD ROBERTS i.roberts@kirbycorp.com : (850)763-7656

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 acceptable for the time in service.

Contact/Location: RICHARD ROBERTS - VPFLOPAN

Report Date:

VPFLOPAN

10752953 Don Baldridge

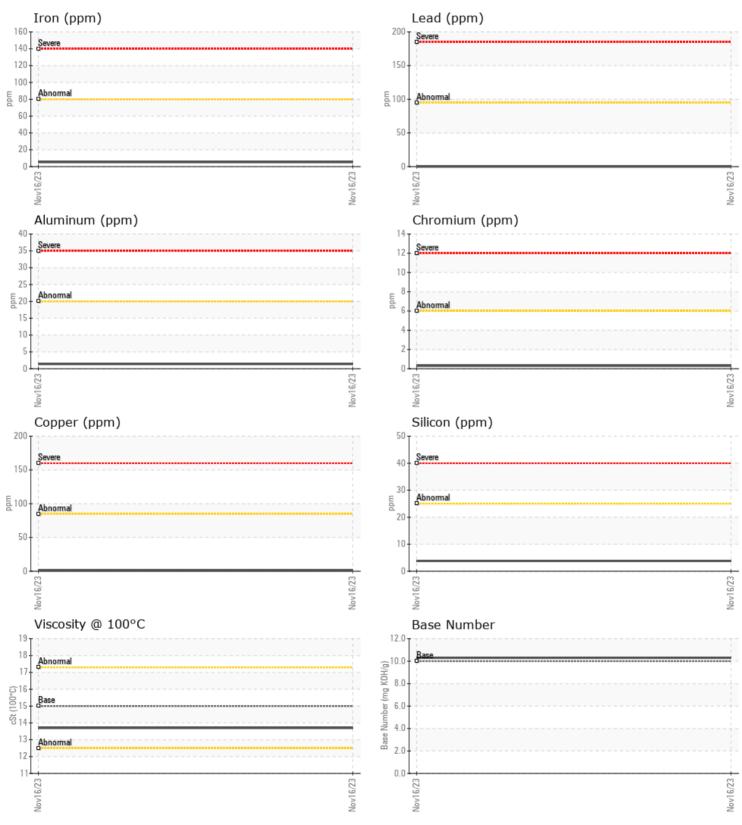
23 Nov 2023



OIL ANALYSIS REPORT



GRAPHS



Report Id: VPFLOPAN [WUSCAR] 06013809 (Generated: 11/23/2023 12:52:51) Rev: 1

Contact/Location: RICHARD ROBERTS - VPFLOPAN