OIL ANALYSIS REPORT

DAVID WILLS DAVE WILLS VOLVO PENTA A 1201056 - CENTER DIESEL ENGINE

Sample No: VPA049630

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

SAMPLE INFORMATION Sample Number VPA049630 Sample Date 01 Oct 2023 Machine Hours 109 **Oil Hours** 109 Oil Changed Changed NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 12.7 Base Number (BN) mg KOH/g 9.4 Oxidation (PA) % 74 CONTAMINATION Soot % % 0.5 % Nitration (PA) 49 Sulfation (PA) % 60 % Glycol NEG Fuel % <1.0 Silicon ppm 26 Sodium 5 ppm Potassium 1 ppm WEAR METALS

Iron	ppm	30	 	
Copper	ppm	1 9	 	
Lead	ppm	8	 	
Tin	ppm	4	 	
Aluminum	ppm	28	 	
Chromium	ppm	3	 	
Molybdenum	ppm	39	 	
Nickel	ppm	2	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1609	 	
Magnesium	ppm	459	 	
Zinc	ppm	1062	 	
Phosphorus	ppm	923	 	
Barium	ppm	0	 	
Boron	ppm	5 0	 	

Pacific Power Group - VP981534 7215 S 228th St Kent, WA US 98032 Contact: PAT RYAN pryan@pacificpowergroup.com T: (253)520-5163 F:

Diagnosis

No corrective action is recommended at this time. 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:
 VP99031103

 Unique No:
 10687248

 Signed:
 Angela Borella

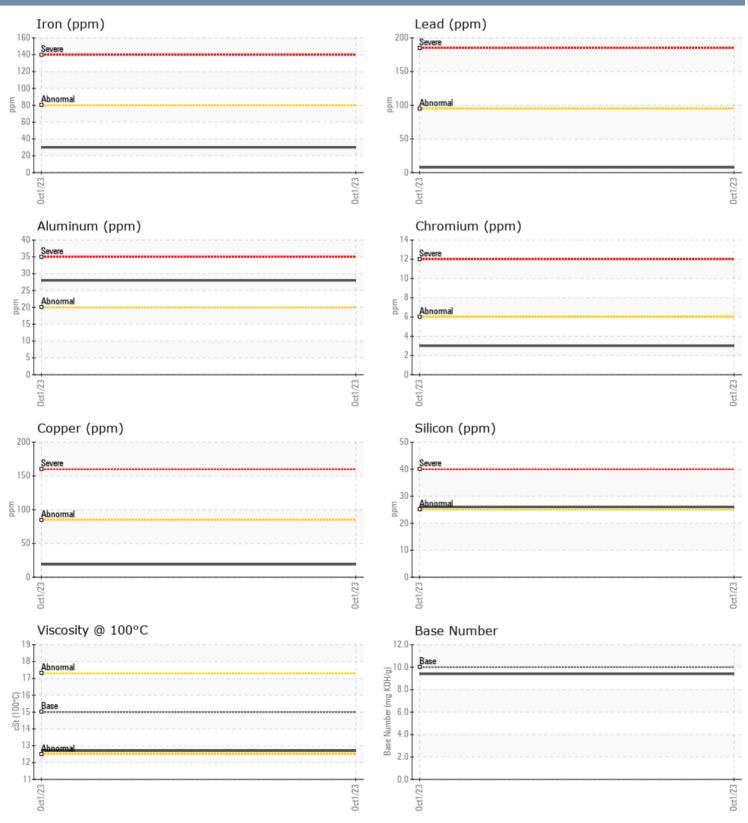
 Report Date:
 12 Oct 2023



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP99031103 [WUSCAR] 05975298 (Generated: 11/02/2023 14:04:58) Rev: 1

Contact/Location: PAT RYAN - VP99031103