OIL ANALYSIS REPORT

LUECK VOLVO PENTA A 1089756 - PORT DIESEL ENGINE

Sample No: VPA036804

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION Sample Number VPA036804 30 Jul 2023 Sample Date Machine Hours 0 0 **Oil Hours** Oil Changed N/A MARGINAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.48 Base Number (BN) mg KOH/g 10.9 Oxidation (PA) % 58 CONTAMINATION Soot % % 0.2 % Nitration (PA) 44 Sulfation (PA) % 54 % NEG Glycol Fuel % <1.0 Silicon ppm Sodium 6 🔲 ppm Potassium ppm 3 WEAR METALS - 25 1......

Iron	ppm	25	 	
Copper	ppm	1 9	 	
Lead	ppm	5	 	
Tin	ppm	2	 	
Aluminum	ppm	1 0	 	
Chromium	ppm	2	 	
Molybdenum	ppm	44	 	
Nickel	ppm	2	 	
Titanium	ppm	 <1	 	
Silver	ppm	0	 	
Manganese	ppm	1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	3178	 	
Magnesium	ppm	103	 	
Zinc	ppm	1150	 	
Phosphorus	ppm	982	 	
Barium	ppm	0	 	
Boron	ppm	392	 	

Harry's Marine Service LLC 1141 N. Citrus St.

1141 N. Citrus St. Orange, CA US 92887 Contact: TARAH AULD info@harrysmarine.com T: (714)771-7899 F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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:
 VP867279

 Unique No:
 10578396

 Signed:
 Doug Bogart

 Report Date:
 31 Jul 2023

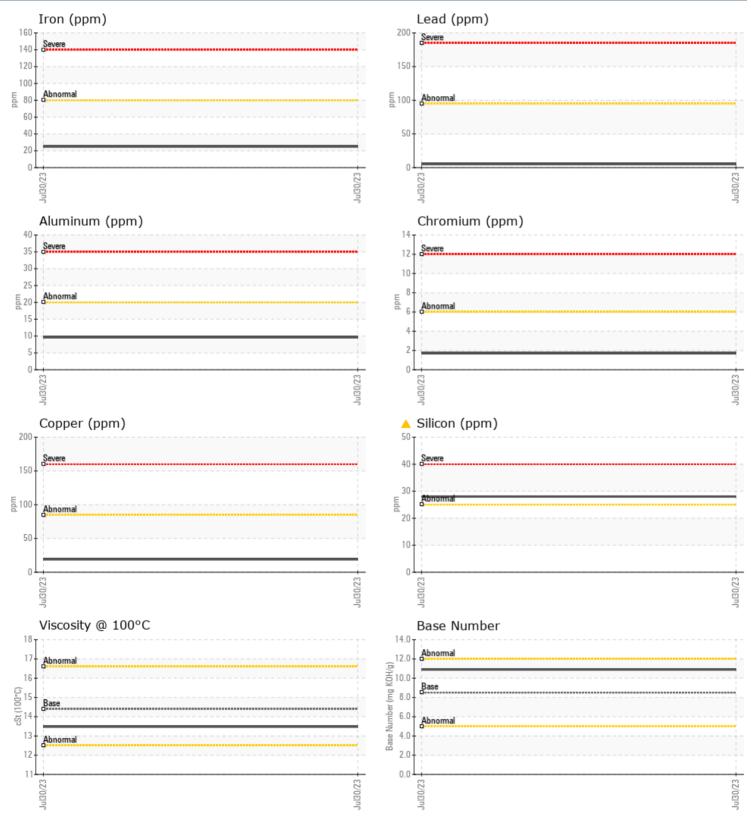
Contact/Location: TARAH AULD - VP867279



OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: TARAH AULD - VP867279