OIL ANALYSIS REPORT

ROBERT SINGER VINCE D/501441 VOLVO PENTA A1198293 - CENTER DIESEL ENGINE

Sample No: VPA048610

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA048610	 	
Sample Date		27 Jul 2023	 	
Machine Hours		27	 	
Oil Hours		27	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	12.8	 	
Base Number (BN)	mg KOH/g	10.3	 	
Oxidation (PA)	%	76	 	
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	41	 	
Sulfation (PA)	%	59	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	20	 	
Sodium	ppm	3	 	
Potassium	ppm	4	 	
WEAD METALC				

WEAR METALS

Iron	ppm	1 4	 	
Copper	ppm	12	 	
Lead	ppm	3	 	
Tin	ppm	2	 	
Aluminum	ppm	10	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	40	 	
Nickel	ppm	1	 	
Titanium	ppm	0	 	
Silver	ppm	 <1	 	
Manganese	ppm	1	 	
Vanadium	ppm	0	 	

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Calcium	ppm	1576	 	
Magnesium	ppm	438	 	
Zinc	ppm	1023	 	
Phosphorus	ppm	900	 	
Barium	ppm	2	 	
Boron	ppm	76	 	

North Harbor Diesel Inc

720 30Th Street ANACORTES, WA US 98221 Contact: ROBBIN MURDOCK robbin@northharbordiesel.com T: (360)299-1904 F:

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:
 VP179089

 Unique No:
 10586108

 Signed:
 Jonathan Hester

 Report Date:
 04 Aug 2023

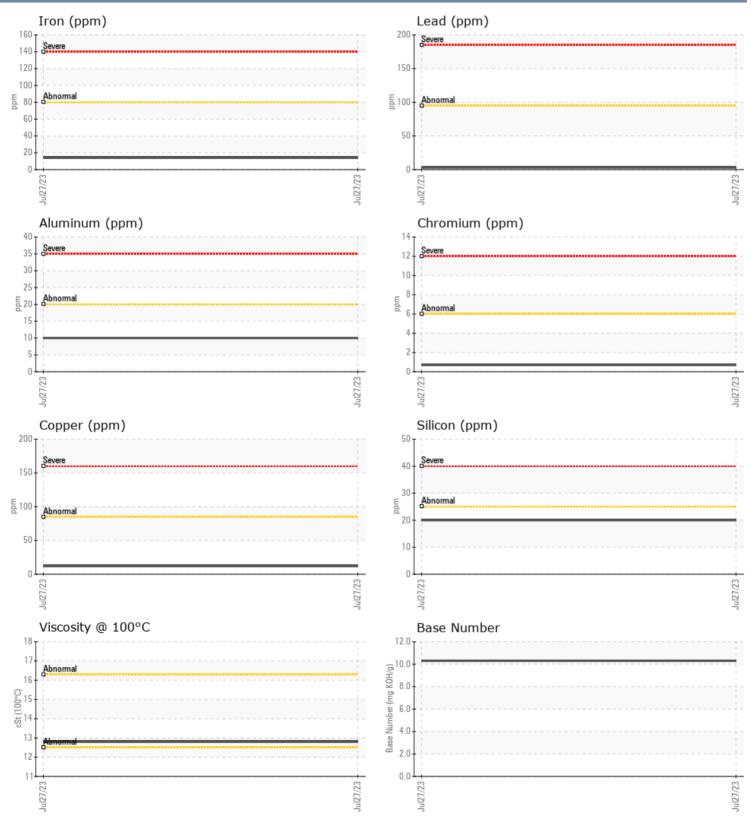
Contact/Location: ROBBIN MURDOCK - VP179089



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP179089 [WUSCAR] 05914194 (Generated: 08/04/2023 10:41:23) Rev: 1

Contact/Location: ROBBIN MURDOCK - VP179089