OIL ANALYSIS REPORT

VOLVO PENTA A315934 - PORT DIESEL ENGINE

Sample No: VPA051941

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

Sample Number		VPA051941	 	
Sample Date		15 Nov 2023	 	
Machine Hours		689	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.8	 	
Base Number (BN)	mg KOH/g	8.2	 	
Oxidation (PA)	%	51	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	57	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■4	 	
Sodium	ppm	2	 	
Potassium	ppm	2	 	
WEAR METALS				
Iron	ppm	17	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	3	 	
Chromium	ppm	□ <1	 	
Molybdenum	ppm	19	 	
Nickel	ppm	0	 	
Titanium	ppm	□ <1	 	
Silver	ppm	0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1344	 	
Magnesium	ppm	731	 	
Zinc	ppm	855	 	
Phosphorus	ppm	656	 	
Barium	ppm	0	 	
Boron	ppm	141		

North Harbor Diesel Inc

720 30Th Street ANACORTES, WA JS 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:
 10755179

 Signed:
 Jonathan Hester

 Report Date:
 27 Nov 2023

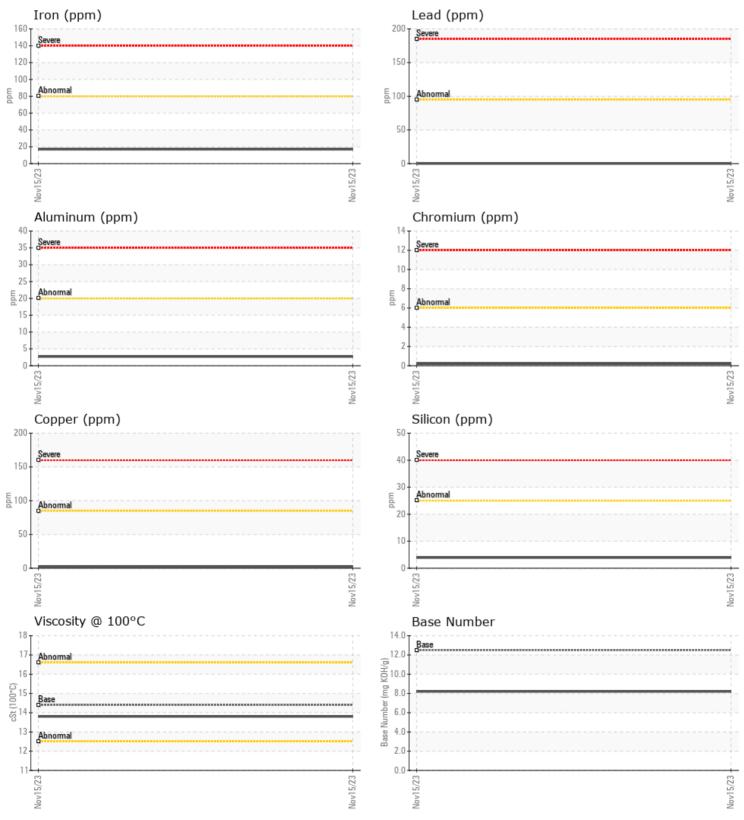
Contact/Location: ROBBIN MURDOCK - VP179089



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP179089 [WUSCAR] 06016035 (Generated: 11/27/2023 16:52:40) Rev: 1

Contact/Location: ROBBIN MURDOCK - VP179089