OIL ANALYSIS REPORT

JIM SCOTT R812622M ROGER CUMMINS/ONAN J140753877 - STARBOARD GENSET

Sample No: VPA045461

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number		VPA045461					
Sample Date		29 Aug 2023					
Machine Hours		1799					
Oil Hours		0					
Oil Changed		N/A					
Sample Status		NORMAL					
OIL CONDITION							
Visc @ 100°C	cSt	13.4					
Base Number (BN)	mg KOH/g	 9.0					
Oxidation (PA)	%	65					
CONTAMINATION							
Soot %	%	■0.1					
Nitration (PA)	%	56					
Sulfation (PA)	%	61					
Glycol	%	NEG					
Fuel	%	<1.0					
Silicon	ppm	7					
Sodium	ppm	3					
Potassium	ppm	5					

WEAR METALS

Iron	ppm	8	 	
Copper	ppm	■<1	 	
Lead	ppm	□ <1	 	
Tin	ppm	0	 	
Aluminum	ppm	2	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	101	 	
Nickel	ppm	0	 	
Titanium	ppm	□ <1	 	
Silver	ppm	0	 	
Manganese	ppm	□<1	 	
Vanadium	ppm	<1	 	

ADDITIVES

Calcium	ppm	1882	 	
Magnesium	ppm	566	 	
Zinc	ppm	1022	 	
Phosphorus	ppm	824	 	
Barium	ppm	0	 	
Boron	ppm	340	 	

Power Products Systems LLC

432 Warren Avenue, 432 Warren Ave. PORTLAND, ME US 04103 Contact: Victor Barr meservice@nedda.com T: (207)797-5950 F:

Diagnosis

No corrective action is recommended at this time. 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:
 VP153549

 Unique No:
 10631058

 Signed:
 Sean Felton

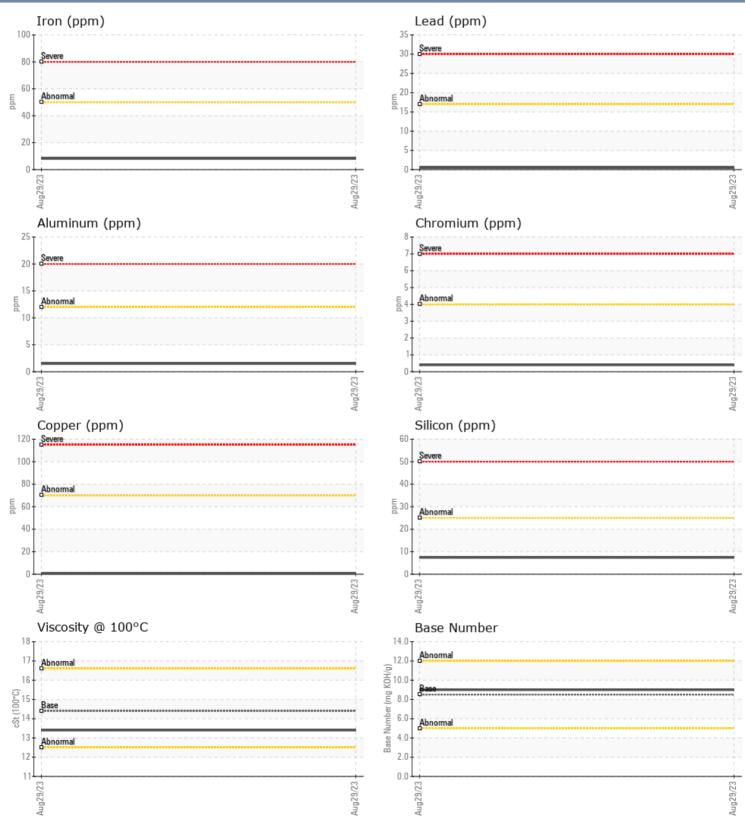
 Report Date:
 05 Sep 2023

Contact/Location: Victor Barr - VP153549

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Victor Barr - VP153549