OIL ANALYSIS REPORT

CARRUTHERS BOB CUMMINS CARRUTHERS (S/N NOT GIVEN) - PORT DIESEL ENGINE

Sample No: VPA036441

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number		VPA036441	 	
Sample Date		20 Oct 2023	 	
Machine Hours		587	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.1	 	
Base Number (BN)	mg KOH/g	8.4	 	
Oxidation (PA)	%	65	 	
CONTAMINATION				
a				
Soot %	%	0.1	 	
Nitration (PA)	%	52	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	4	 	
Sodium	ppm	4	 	
Potassium	ppm	3	 	

WEAR METALS

Iron	ppm	4	 	
Copper	ppm	5	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	 <1	 	
Chromium	ppm	0	 	
Molybdenum	ppm	11	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm		 	
Manganese	ppm	 <1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1984	 	
Magnesium	ppm	186	 	
Zinc	ppm	1218	 	
Phosphorus	ppm	888	 	
Barium	ppm	0	 	
Boron	ppm	150	 	

Walstrom Marine - 767948

501 Bay Street HARBOR SPRINGS, MI US 49740 Contact: MARK LEWIS mlewis@walstrom.com T: 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 acceptable for the time in service.

 Depot:
 VP154879

 Unique No:
 10711559

 Signed:
 Sean Felton

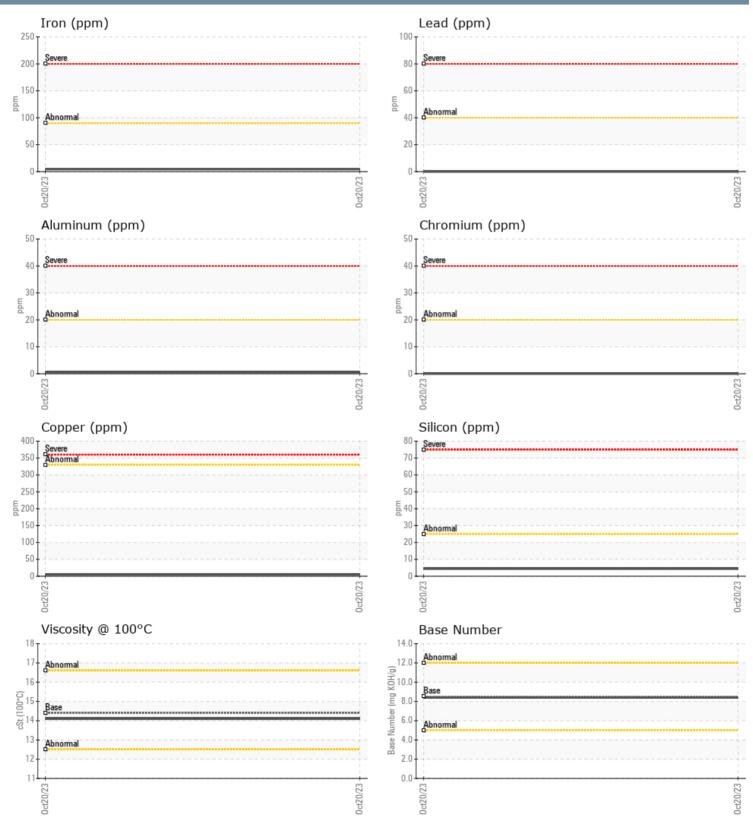
 Report Date:
 27 Oct 2023

Contact/Location: MARK LEWIS - VP154879

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP154879 [WUSCAR] 05988897 (Generated: 10/27/2023 11:01:40) Rev: 1

Contact/Location: MARK LEWIS - VP154879