OIL ANALYSIS REPORT



WAPLES ONAN/CUMMINS C120317516 - GENSET

Sample No: VPA021916

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Sample Number		VPA021916	 	
Sample Date		05 Dec 2023	 	
Machine Hours		1298	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
	<u> </u>	- 40 5		
Visc @ 100°C	cSt	12.5	 	
Base Number (BN)	mg KOH/g	9.0	 	
Oxidation (PA)	%	58	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	51	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	6	 	
Sodium	ppm	4	 	
Potassium	ppm	 <1	 	
WEAR METALS				
Iron	ppm	4	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	□ <1	 	
Chromium	ppm	□ <1	 	
Molybdenum	ppm	55	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm		 	
Manganese	ppm	□ <1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1041	 	
Magnesium	ppm	927	 	
Zinc	ppm	1255	 	
Phosphorus	ppm	1255	 	
	ppm		 	
Barium	nnm			

FULL KEEL MARINE SERVICES

314 LEGION AVE ANNAPOLIS, MD US 21401 Contact: Service Manager FULLKEELMARINESERIVES@GMAIL.COM T: (410)507-3542 E.

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:
 VP1298996

 Unique No:
 10781923

 Signed:
 Sean Felton

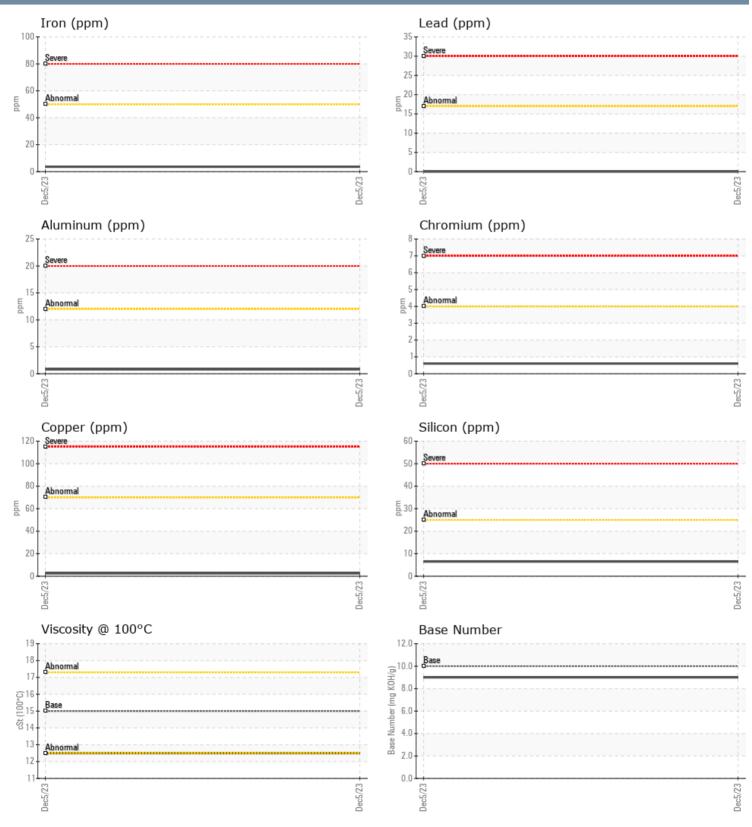
 Report Date:
 14 Dec 2023

Contact/Location: Service Manager - VP1298996

OIL ANALYSIS REPORT



GRAPHS



Contact/Location: Service Manager - VP1298996