OIL ANALYSIS REPORT

KURT LENTSCH CUMMINS 46056139 - STARBOARD DIESEL ENGINE

Sample No: VPA050867

Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number		VPA050867	 	
Sample Date		24 Oct 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.5	 	
Base Number (BN)	mg KOH/g	8.3	 	
Oxidation (PA)	%	69	 	
CONTAMINATION				
Soot %	%	0.3	 	
Nitration (PA)	%	58	 	
Sulfation (PA)	%	58	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	3	 	
Sodium	ppm	4	 	
Potassium	ppm	4	 	

WEAR METALS

Iron	ppm	1 6	 	
Copper	ppm	4	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	1	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	 <1	 	
Nickel	ppm	 <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	 <1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	2111	 	
Magnesium	ppm	16	 	
Zinc	ppm	1177	 	
Phosphorus	ppm	845	 	
Barium	ppm	0	 	
Boron	ppm	168	 	

BAY MARINE

3 E MADISON ST WAUKEGAN, IL US 60085 Contact: BRENDAN COWHEY brendan@baymarine.net T: (847)336-2628 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: VP1174336 Unique No: 10711566 Signed: Sean Felton Report Date: 27 Oct 2023



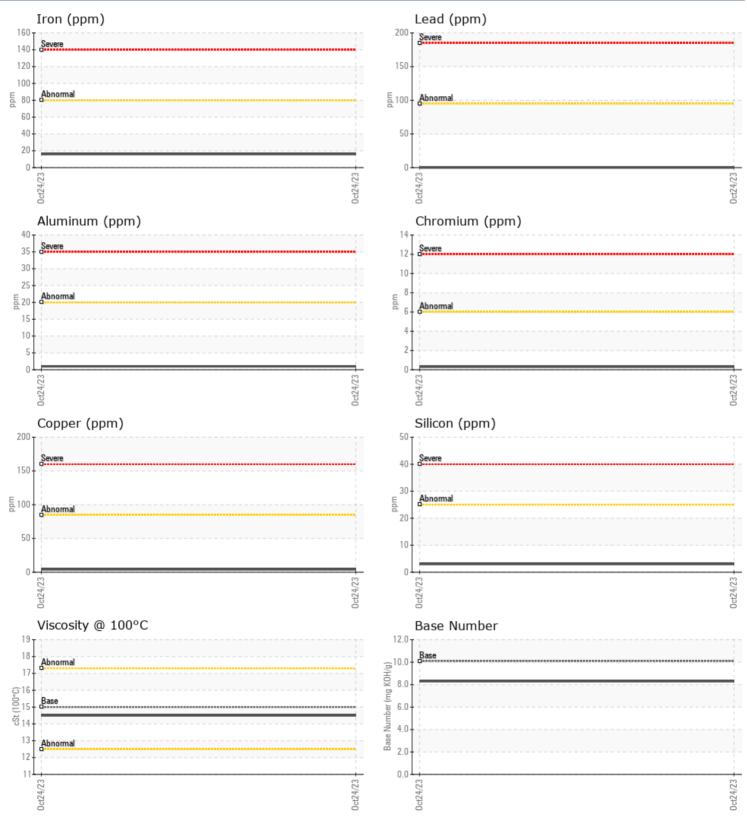
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OIL ANALYSIS REPORT



GRAPHS



Report Id: VP1174336 [WUSCAR] 05988904 (Generated: 10/27/2023 10:39:07) Rev: 1

Contact/Location: BRENDAN COWHEY - VP1174336