OIL ANALYSIS REPORT

GRANT MCGHEE CUMMINS 46340133 - STARBOARD DIESEL ENGINE

Sample No: VPA045643

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

JAMPLE INFURMA	IIUN			
Sample Number		VPA045643	 	
Sample Date		26 Mar 2024	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.3	 	
Base Number (BN)	mg KOH/g	8.6	 	
Oxidation (PA)	%	67	 	
CONTAMINATION				
	0/	NEC		
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	48 56	 	
Sulfation (PA)	%		 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■4	 	
Sodium	ppm	0	 	
Potassium	ppm	8	 	
WEAR METALS				
Iron	ppm	9	 	
Copper	ppm	7	 	
Lead	ppm	∎1	 	
Tin	ppm	1	 	
Aluminum	ppm	1	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	9	 	
Nickel	ppm	2	 	
Titanium	ppm	 <1	 	
Silver	ppm	<1	 	
Manganese	ppm	 <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	2169	 	
Magnesium	ppm	34	 	
Zinc	ppm	1140	 	
Phosphorus	ppm	1069	 	
Barium	ppm	0	 	
Boron	ppm	217	 	



Aqua Yacht Harbor Marina 3832 Hwy. 25 North, 3832 Hwy. 25 North IUKA, MS US 38852 Contact: DENNIS KANIZAI dkanizai@shmarinas.com T:

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:
 VP299833

 Unique No:
 10949809

 Signed:
 Don Baldridge

 Report Date:
 30 Mar 2024

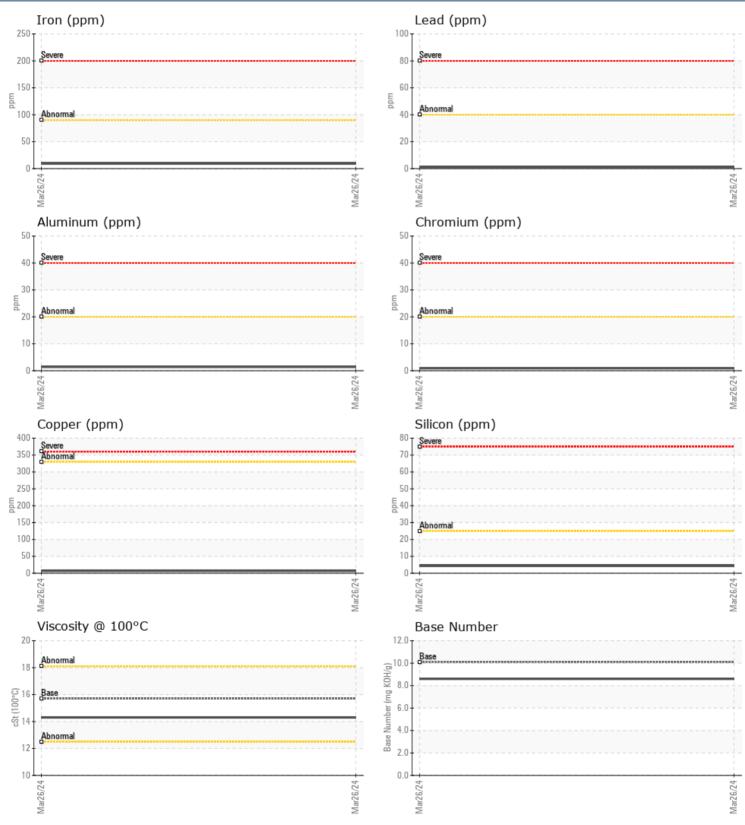
Report Id: VP299833 [WUSCAR] 06130344 (Generated: 04/02/2024 10:15:44) Rev: 1

Contact/Location: DENNIS KANIZAI - VP299833

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP299833 [WUSCAR] 06130344 (Generated: 04/02/2024 10:15:46) Rev: 1

Contact/Location: DENNIS KANIZAI - VP299833