## **OIL ANALYSIS REPORT**

### ALLOS 354002 CUMMINS 74051054 - STARBOARD DIESEL ENGINE

Sample No: VPA052233

Oil Type: SHELL ROTELLA T4 15W40

#### SAMPLE INFORMATION Sample Number VPA052233 19 Feb 2024 Sample Date Machine Hours 259 0 **Oil Hours** Oil Changed N/A NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 14.2 Base Number (BN) mg KOH/g 8.6 Oxidation (PA) % 65 CONTAMINATION % NEG Water % Soot % 0.5 Nitration (PA) % 53 % Sulfation (PA) 57 Glycol % NEG Fuel % <1.0 Silicon 3 ppm Sodium 0 🔲 ppm Potassium 6 🔲 ppm WEAR METALS Iron 9 🔲 ppm 10 Copper ppm Lead 0 🔲 ppm Tin ■ <1 ppm

Aluminum ppm 2 Chromium ppm <1 Molybdenum ppm 3 Nickel **||** <1 ppm Titanium ppm **||** <1 Silver ■ <1 ppm Manganese 0 🔲 ppm Vanadium ppm <1

ADDITIVES				
Calcium	ppm	1832	 	
Magnesium	ppm	9	 	
Zinc	ppm	970	 	
Phosphorus	ppm	886	 	
Barium	ppm	0	 	
Boron	ppm	<b>168</b>	 	

#### Skipper Marine of Ohio, LLC

6801 E. Harbor Rd. MARBLEHEAD, OH US 43440 Contact: D LAKE dlake@skipperbuds.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:
 VP494046

 Unique No:
 10889476

 Signed:
 Sean Felton

 Report Date:
 23 Feb 2024

Contact/Location: D LAKE - VP494046

Report Id: VP494046 [WUSCAR] 06096623 (Generated: 02/23/2024 13:40:29) Rev: 1

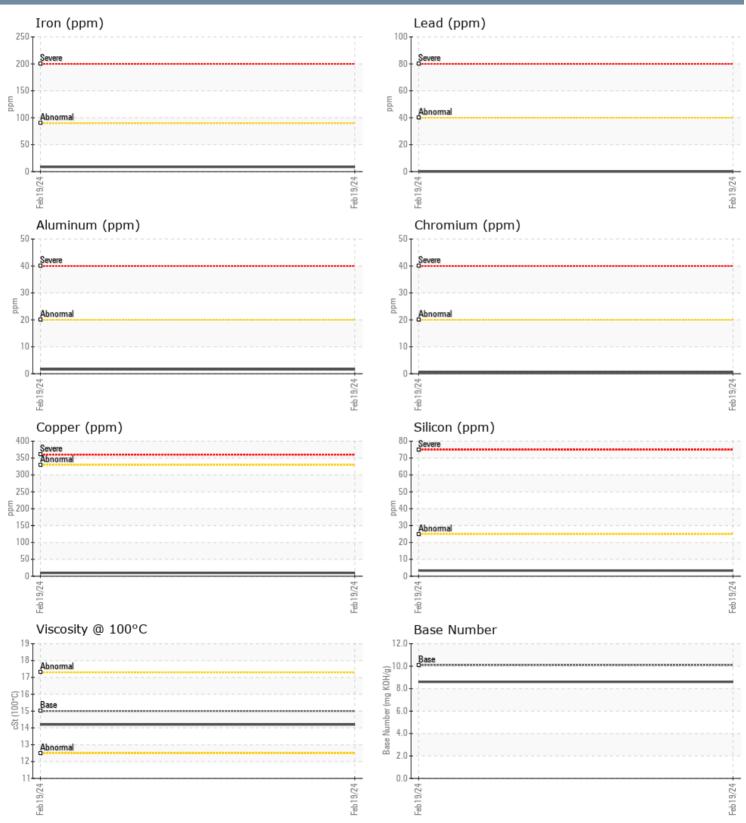
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# **OIL ANALYSIS REPORT**



#### GRAPHS



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Contact/Location: D LAKE - VP494046