## **OIL ANALYSIS REPORT**

### FELDMAN CUMMINS 46591656 - STARBOARD DIESEL ENGINE

Sample No:VPA012853Oil Type:NOT GIVEN

#### SAMPLE INFORMATION

Samele information					
Sample Number		VPA012853			
Sample Date		01 Dec 2023			
Machine Hours		0			
Oil Hours		0			
Oil Changed		N/A			
Sample Status		NORMAL			
OIL CONDITION					
Visc @ 100°C	cSt	<b>14.3</b>			
Base Number (BN)	mg KOH/g	9.4			
Oxidation (PA)	%	64			
CONTAMINATION					
	24				
Water	%	NEG			
Soot %	%	<b>0.1</b>			
Nitration (PA)	%	52			
Sulfation (PA)	%	53			
Glycol	%	NEG			
Fuel	%	<1.0			
Silicon	ppm	8			
Sodium	ppm	4			
Potassium	ppm	8			
WEAR METALS					
Iron	ppm	<b>18</b>			
Copper	ppm	 <b>□</b> 11			
Lead	ppm	0			
Tin	ppm	<b>□</b> <1			
Aluminum	ppm	<b>4</b>			
Chromium	ppm	<b>■</b> <1			
Molybdenum	ppm	■ 60			
Nickel	ppm	3			
Titanium	ppm	0			
Silver	ppm	<b>  </b> <1			
Manganese	ppm	<1			
Vanadium	ppm	0			
ADDITIVES					
Calcium	ppm	<b>1125</b>			
Magnesium	ppm	877			
Zinc	ppm	<b>1198</b>			
Phosphorus	ppm	942			
Barium	ppm	0			
Boron	ppm	5			



Lockwood Boat Works Inc 1825 Highway 35, Morgan SOUTH AMBOY, NJ US 08879 Contact: Ellen Lockwood ellen@lockwoodboatworks.com;maryann@lockwoodboatworks.com T:

#### Diagnosis

F:

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 suitable for further service.

 Depot:
 VP153187

 Unique No:
 10777213

 Signed:
 Angela Borella

 Report Date:
 08 Dec 2023

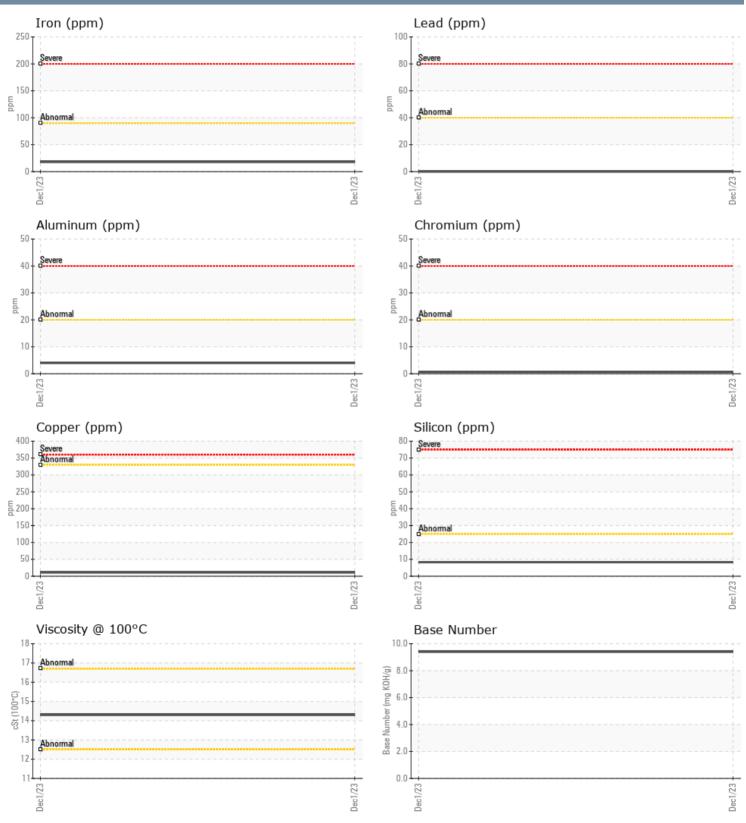
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Contact/Location: Ellen Lockwood - VP153187

# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP153187 [WUSCAR] 06027422 (Generated: 12/11/2023 13:15:42) Rev: 1

Contact/Location: Ellen Lockwood - VP153187