



## BISCOE 560-105 CUMMINS 22177763 - STARBOARD DIESEL ENGINE

Sample No: VPA021446

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMAT	TION			
Sample Number		VPA021446	 	
Sample Date		05 Dec 2023	 	
Machine Hours		740	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>15.0</b>	 	
Base Number (BN)	mg KOH/g	■8.0	 	
Oxidation (PA)	%	65	 	
CONTAMINATION				
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	<b>1.2</b>	 	
Nitration (PA)	%	65	 	
Sulfation (PA)	%	60	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>■</b> 4	 	
Sodium	ppm	<b>2</b>	 	
Potassium	ppm	<b>■</b> 3	 	
WEAR METALS				
Iron	ppm	<b>17</b>	 	
Copper	ppm	<b>31</b>	 	
Lead	ppm	<b>■&lt;1</b>	 	
Tin	ppm	<b>■&lt;1</b>	 	
Aluminum	ppm	<u> </u>	 	
Chromium	ppm	<1	 	
Molybdenum	ppm	<b>11</b>	 	
Nickel	ppm	<b>2</b>	 	
Titanium	ppm	<b>■&lt;1</b>	 	
Silver	ppm	<b>■&lt;1</b>	 	
Manganese	ppm	<b>■&lt;1</b>	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	<b>2007</b>	 	
Magnesium	ррт	<b>■</b> 2007	 	
Zinc	ppm	<b>1133</b>	 	
Phosphorus	ppm	932	 	
Barium	ppm	<b>0</b>	 	
Boron	ppm	<b>127</b>	 	
201011	Lh			

## **Outstanding Marine**

PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net

1: 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 suitable for further service.

Depot:VP153685Unique No:10816283Signed:Don BaldridgeReport Date:04 Jan 2024

## **OIL ANALYSIS REPORT**



