



## **CUMMINS 46387757 - DIESEL ENGINE**

Sample No: VPA045504

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMAT	TION			
	IION			
Sample Number		VPA045504	 	
Sample Date		11 Sep 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		SEVERE	 	
OIL CONDITION				
Visc @ 100°C	cSt	11.0	 	
Base Number (BN)	mg KOH/g	<b>7.7</b>	 	
Oxidation (PA)	%	25	 	
CONTAMINATION				
Soot %	%	<b>0</b>	 	
Nitration (PA)	%	26	 	
Sulfation (PA)	%	36	 	
Glycol	%	NEG	 	
Fuel	%	<b>■0.2</b>	 	
Silicon	ppm	<b>4</b>	 	
Sodium	ppm	8	 	
Potassium	ppm	<b>■</b> 0	 	
WEAR METALS				
Iron	ppm	■ 15 ▲ 74	 	
Copper	ppm	_	 	
Lead	ppm	100	 	
Tin Aluminum	ppm	<b>■</b> <1	 	
	ppm	<b>9</b>	 	
Chromium	ppm	<b>=</b> <1	 	
Molybdenum	ppm	<b>112</b>	 	
Nickel	ppm	<b>0</b>	 	
Titanium	ppm	<b>0</b>	 	
Silver	ppm	<b>=</b> <1	 	
Manganese	ppm	<b>■</b> <1	 	
Vanadium	ppm	0	 	
<b>ADDITIDES</b>				
Calcium	ppm	<b>2480</b>	 	
Magnesium	ppm	■93	 	
Zinc	ppm	<b>1110</b>	 	
Phosphorus	ppm	■985	 	
Barium	ppm	<b>0</b>	 	
Boron	ppm	<b>10</b>	 	

## **Walstrom Marine**

501 Bay Street HARBOR SPRINGS, MI US 49740 Contact: MARK LEWIS

Contact: MARK LEWIS mlewis@walstrom.com

F:

## Diagnosis

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:VP154879Unique No:10647187Signed:Doug BogartReport Date:18 Sep 2023

## **OIL ANALYSIS REPORT**



