# **OIL ANALYSIS REPORT**

# JAKE FARLEY CATERPILLAR RNC-02303 - STARBOARD DIESEL ENGINE

Sample No: VPA051503

Oil Type: CAT DIESEL ENGINE OIL 15W40

## SAMPLE INFORMATION

Sample Number		VPA051503	 	
Sample Date		14 Aug 2023	 	
Machine Hours		0	 	
Oil Hours		100	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>12.7</b>	 	
Base Number (BN)	mg KOH/g	9.8	 	
Oxidation (PA)	%	76	 	
CONTAMINATION				
Soot %	%	0.3	 	
Nitration (PA)	%	57	 	
Sulfation (PA)	%	60	 	
	/0			
Glycol	%	NEG	 	
, ,				
Glycol	%	NEG		
Glycol Fuel	%	NEG <1.0	 	

## WEAR METALS

Iron	ppm	<b>15</b>	 	
Copper	ppm	27	 	
Lead	ppm	<b>1</b>	 	
Tin	ppm	2	 	
Aluminum	ppm	0	 	
Chromium	ppm	3	 	
Molybdenum	ppm	<b>41</b>	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

## ADDITIVES

Calcium	ppm	<b>1683</b>	 	
Magnesium	ppm	515	 	
Zinc	ppm	1131	 	
Phosphorus	ppm	964	 	
Barium	ppm	2	 	
Boron	ppm	52	 	

#### Edward`s Marine and Sons

12741 Sunset Ave OCEAN CITY, MD US 21842 Contact: Edward Bartholme edwardsmarine@comcast.net;canastasio@wearcheckusa.com T: F:

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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:
 VP551029

 Unique No:
 10618330

 Signed:
 Sean Felton

 Report Date:
 25 Aug 2023

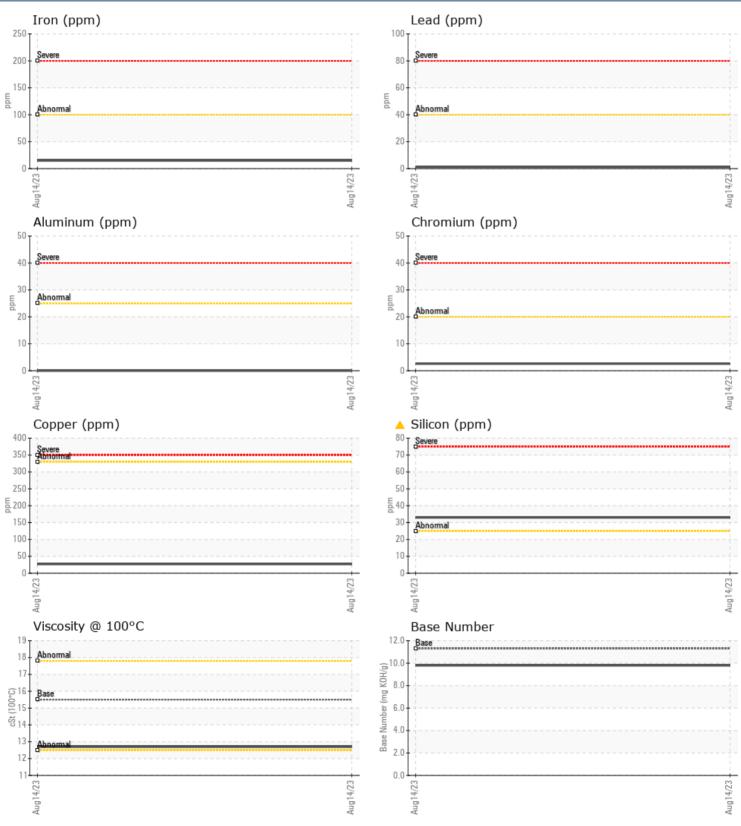
### Report Id: VP551029 [WUSCAR] 05933059 (Generated: 08/30/2023 20:04:16) Rev: 1

Contact/Location: Edward Bartholme - VP551029

# **OIL ANALYSIS REPORT**



### GRAPHS



Report Id: VP551029 [WUSCAR] 05933059 (Generated: 08/30/2023 20:04:18) Rev: 1

Contact/Location: Edward Bartholme - VP551029