## **OIL ANALYSIS REPORT**

## BRIAN GROTTY 534297 YANMAR 3147 - STARBOARD DIESEL ENGINE

Sample No: VPA055681

Oil Type: SHELL ROTELLA T4 15W40

#### SAMPLE INFORMATION

SAMPLE INFURMAT	IUR			
Sample Number		VPA055681	 	
Sample Date		15 Feb 2024	 	
Machine Hours		1332	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.7	 	
Base Number (BN)	mg KOH/g	9.2	 	
Oxidation (PA)	%	56	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	38	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	8	 	
Sodium	ppm	5	 	
Potassium	ppm	2	 	
WEAR METALS				
Iron	ppm	<b>1</b> 8	 	
Copper	ppm	8	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	<b>11</b>	 	
Chromium	ppm	<b>1</b>	 	
Molybdenum	ppm	53	 	
Nickel	ppm	<b> </b> <1	 	
Titanium	ppm	<b> </b> <1	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	
ADDITIVES				

NUDILIALS				
Calcium	ppm	<b>1603</b>	 	
Magnesium	ppm	368	 	
Zinc	ppm	1167	 	
Phosphorus	ppm	<b>1035</b>	 	
Barium	ppm	<b>10</b>	 	
Boron	ppm	<b>111</b>	 	

### Jas Marine Service Inc.

VOLVO Penta

1009 Newman RD. LAKE PARK, FL US 33403 Contact: DEBBIE debbie@jasmarine.com T: (561)844-3224 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:
 VP152963

 Unique No:
 10885576

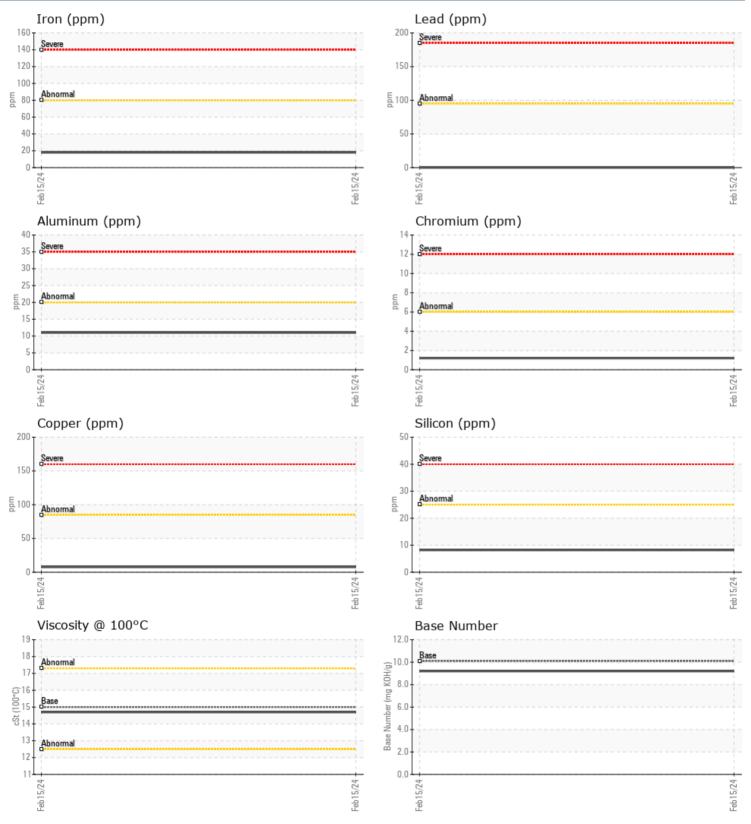
 Signed:
 Don Baldridge

 Report Date:
 20 Feb 2024

# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP152963 [WUSCAR] 06092723 (Generated: 02/20/2024 19:26:33) Rev: 1

Contact/Location: DEBBIE ? - VP152963