## **OIL ANALYSIS REPORT**

## ALAN FLEISUAKER 37910 YANMAR E06976 - CENTER DIESEL ENGINE

Sample No: VPA036601

Oil Type: DIESEL ENGINE OIL SAE 40

#### SAMPLE INFORMATION

Sample Number		VPA036601	 	
Sample Date		01 Aug 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.9</b>	 	
Base Number (BN)	mg KOH/g	9.0	 	
Oxidation (PA)	%	63	 	
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	49	 	
Sulfation (PA)	%	53	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<u> </u>	 	
Sodium	ppm	3	 	
Potassium	ppm	6	 	

### WEAR METALS

Iron	ppm	<b>1</b> 9	 	
Copper	ppm	<b>4</b>	 	
Lead	ppm	■<1	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	<b>1</b> 3	 	
Chromium	ppm	<b>  </b> <1	 	
Molybdenum	ppm	<b>4</b>	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■<1	 	
Vanadium	ppm	0	 	

#### ADDITIVES

Calcium	ppm	2240	 	
Magnesium	ppm	39	 	
Zinc	ppm	<b>1171</b>	 	
Phosphorus	ppm	977	 	
Barium	ppm	0	 	
Boron	ppm	<b>179</b>	 	

#### TRUE NORTH MARINE

1206 MARINA BAY DR CLEAR LAKE SHORES, TX US 77565 Contact: ERIC BASDEKIS e.basdekis@truenorth-marine.com T: (832)536-3277 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 suitable for further service.

 Depot:
 VP975860

 Unique No:
 10587683

 Signed:
 Doug Bogart

 Report Date:
 06 Aug 2023

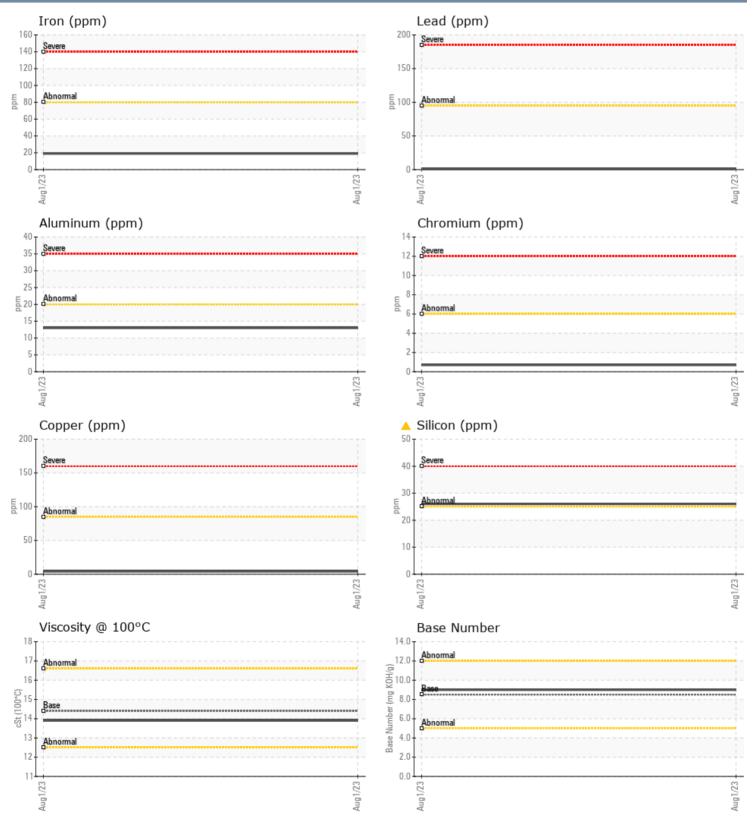
Contact/Location: ERIC BASDEKIS - VP975860



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#### GRAPHS



Report Id: VP975860 [WUSCAR] 05915769 (Generated: 08/08/2023 00:27:35) Rev: 1

Contact/Location: ERIC BASDEKIS - VP975860