## **OIL ANALYSIS REPORT**

### JUDSON AIN - VANQUISH VOLVO PENTA 70112052647 - STARBOARD DIESEL ENGINE

Sample No: VPA036689

Oil Type: SHELL ROTELLA T 15W40

#### SAMPLE INFORMATION

JAMPLE INFURMA	HUN			
Sample Number		VPA036689	 	 
Sample Date		15 Dec 2023	 	 Larry`s Lighthouse Marina
Machine Hours		60	 	 1250
Oil Hours		60	 	 AQUEBOGUE, NY
Oil Changed		Changed	 	 US 11931
Sample Status		ATTENTION	 	 Contact: MAX FUHLBRUGGE
OIL CONDITION				info@lighthousemarina.com T: x:
Visc @ 100°C	cSt	<b>12.1</b>	 	 F: x:
Base Number (BN)		7.3	 	
Oxidation (PA)	mg KOH/g %	52	 	 Diagnosis
Oxidation (PA)	70	32	 	 Oil and filter change at the time of
CONTAMINATION				sampling has been noted. No
				corrective action is recommended at
Water	%	NEG	 	 this time. Resample at the next
Soot %	%	0.1	 	 service interval to monitor.All
Nitration (PA)	%	62	 	 component wear rates are normal.
Sulfation (PA)	%	47	 	 Fuel content negligible. Elemental level of silicon (Si) above normal
Glycol	%	NEG	 	 indicating ingress of seal material.
Fuel	%	1.0	 	 The oil viscosity is lower than normal.
Silicon	ppm	▲ 32	 	 The BN result indicates that there is
Sodium	ppm	<b>4</b>	 	 suitable alkalinity remaining in the oil.
Potassium	ppm	5	 	 Confirm oil type.
WEAR METALS				
Iron	ppm	8	 	
Copper	ppm	<b>11</b>	 	
Lead	ppm	2	 	
Tin	ppm	<b>1</b>	 	
Aluminum	ppm	2	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	<b>79</b>	 	
Nickel	ppm	<b>■</b> <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<b></b> <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	2080	 	
Magnesium	ppm	14	 	
Zinc	ppm	1199	 	
Phosphorus	ppm	<b>1039</b>	 	
	PPIII			

 Depot:
 VP6

 Unique No:
 108

 Signed:
 Dor

 Report Date:
 25 J

VP610438 10843046 Don Baldridge 25 Jan 2024

ppm

ppm

0 🔲

67

Barium

Boron

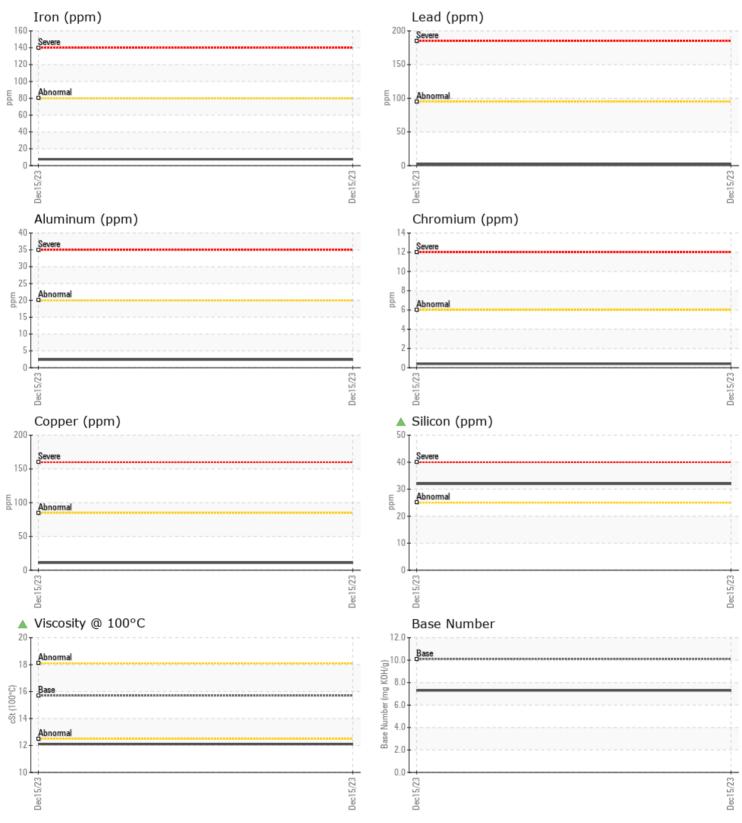
Contact/Location: MAX FUHLBRUGGE - VP610438



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#### GRAPHS



Report Id: VP610438 [WUSCAR] 06066369 (Generated: 01/26/2024 01:29:19) Rev: 2

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