## **OIL ANALYSIS REPORT**

## BOB GUNTHER HIGH POINT/3491 VOLVO PENTA 70112022390 - STARBOARD DIESEL ENGINE

Sample No: VPA036632

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Sample Number		VPA036632	VPA050519	 
Sample Date		08 Nov 2023	21 Jun 2023	 
Machine Hours		302	121	 
Oil Hours		0	121	 
Oil Changed		Changed	Changed	 
Sample Status		ATTENTION	ATTENTION	 
OIL CONDITION				
Visc @ 100°C	cSt	<b>12.0</b>	11.2	 
Base Number (BN)	mg KOH/g	8.9	9.5	 
Oxidation (PA)	%	60	56	 
	,,,			
CONTAMINATION				
Soot %	%	0.8	0.3	 
Nitration (PA)	%	65	48	 
Sulfation (PA)	%	58	53	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<b>2</b> .4	 
Silicon	ppm	<b>1</b> 3	46	 
Sodium	ppm	2	4	 
Potassium	ppm	<b></b> <1	6	 
WEAR METALS				
Iron	ppm	20	20	 
Copper	ppm	<b>76</b>	23	 
Lead	ppm	2	3	 
Tin	ppm	<b>1</b>	3	 
Aluminum	ppm	<b>1</b>	0	 
Chromium	ppm	<b>□</b> <1	1	 
Molybdenum	ppm	54	55	 
Nickel	ppm	∎1	<b></b> <1	 
Titanium	ppm	0	<b></b> <1	 
Silver	ppm	□<1	<b></b> <1	 
Manganese	ppm	□ <1	2	 
Vanadium	ppm	0	0	 
ADDITIVES				
Calcium	ppm	1126	2250	 
Magnesium	ppm	851	298	 
Zinc	ppm	1182	1242	 
	ppm	989	1021	 
Phosphorus				
Phosphorus Barium	ppm	<b>0 9</b>	□1 215	 

#### GRAND BANKS

450 SW SALEM RD STUART, FL JS 34994 Contact: ROBERT ANTONA roberta@gbmarinegroup.com F: (609)384-5290

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

 Depot:
 VP531377

 Unique No:
 10743028

 Signed:
 Don Baldridge

 Report Date:
 19 Nov 2023

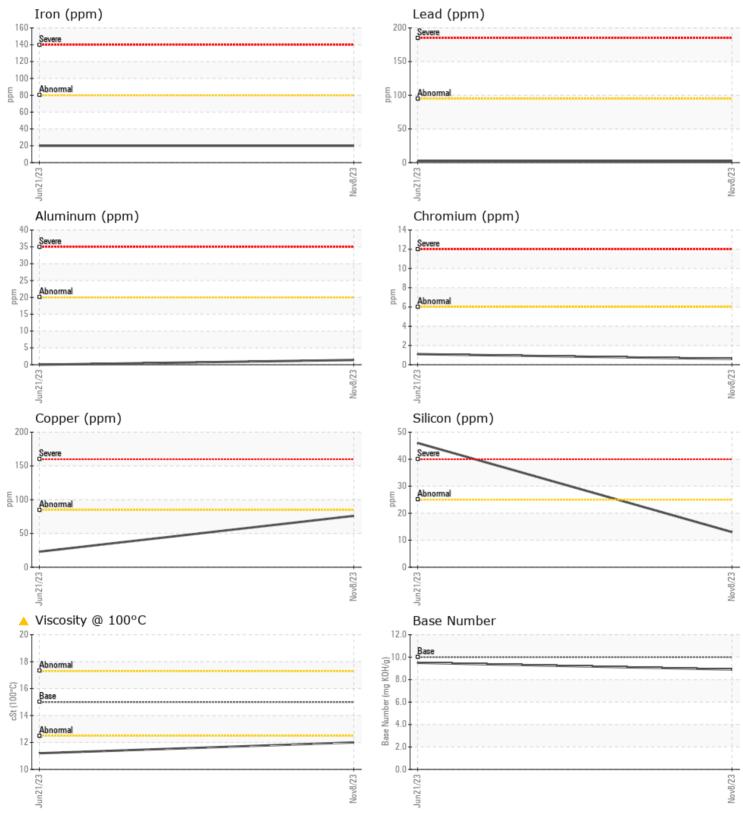
Contact/Location: ROBERT ANTONA - VP531377



# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP531377 [WUSCAR] 06009266 (Generated: 11/19/2023 14:35:12) Rev: 1

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