## **OIL ANALYSIS REPORT**

## LEHRMAN VOLVO PENTA A589606 - STARBOARD DIESEL ENGINE

Sample No: VPA036364

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

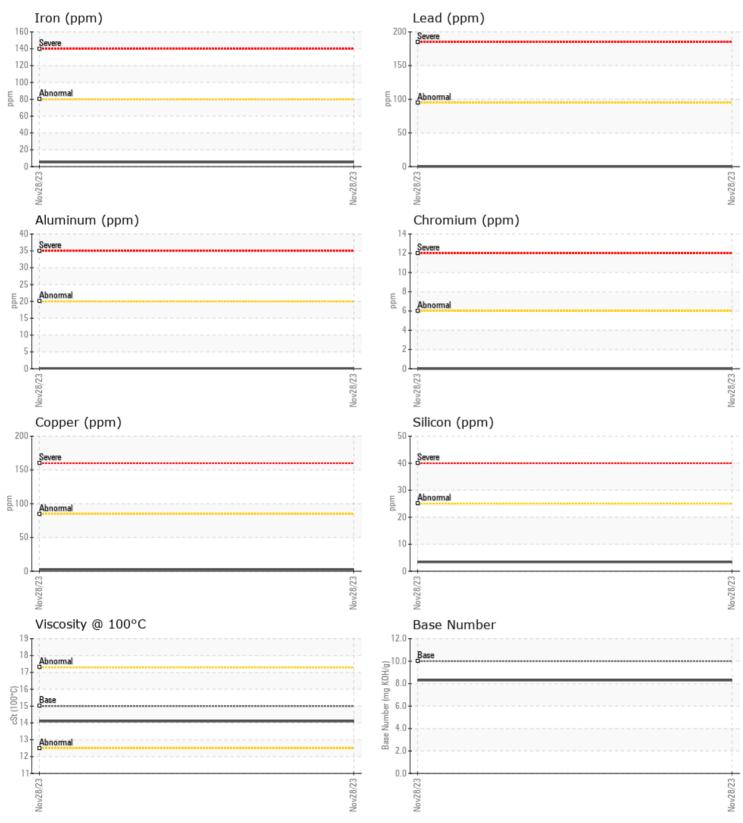
Sample Number		VPA036364				
Sample Date		28 Nov 2023				FULL KEEL MARINE SERVICES
Machine Hours		806				314 LEGION AVE
Oil Hours		0				ANNAPOLIS, MD
Oil Changed						US 21401
Sample Status		Changed NORMAL				Contact: Service Manager
Sample Status		NORMAL				FULLKEELMARINESERIVES@GMAIL.CC
OIL CONDITION						T: (410)507-3542
Visc @ 100°C	cSt	∎14.1				F:
Base Number (BN)	mg KOH/g	8.3				<b>_</b>
Oxidation (PA)	%	63				Diagnosis
CONTAMINATION						Resample at the next service interva to monitor.All component wear rate are normal. There is no indication o
Water	%	NEG				any contamination in the oil. The BN
Soot %	%	0.1				result indicates that there is suitable
Nitration (PA)	%	48				alkalinity remaining in the oil. The
Sulfation (PA)	%	55				condition of the oil is acceptable fo
Glycol	%	NEG				the time in service.
Fuel	%	<1.0				
Silicon	ppm	3				
Sodium	ppm	2				
Potassium	ppm	3				
WEAR METALS						
Iron	ppm	5				
Copper	ppm	3				
Lead	ppm	0				
Tin	ppm	<b>■</b> <1				
Aluminum	ppm	■ <1				
Chromium	ppm	0				
Molybdenum	ppm	7				
Nickel	ppm	0				
Titanium	ppm	0				
Silver	ppm	0				
Manganese	ppm	0				
Vanadium	ppm	<1				
ADDITIVES						
Calcium	ppm	2029				
	ppm	<b>135</b>				
Magnesium	ppm	<b>1142</b>				
Magnesium Zinc						
	ppm	990				
Zinc	ppm ppm	<b>990</b>				



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## GRAPHS



Report Id: VP1298996 [WUSCAR] 06021938 (Generated: 12/04/2023 14:11:20) Rev: 1

Contact/Location: Service Manager - VP1298996