## **OIL ANALYSIS REPORT**

## LEE RICHARDSON PB 65-16/3754 VOLVO PENTA 2013902084 - STARBOARD DIESEL ENGINE

Sample No: VPA054056

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

Sample Number		VPA054056				
Sample Date		21 Mar 2024				GRAND BANKS
Machine Hours		296				450 SW SALEM RD
Oil Hours		0				STUART, FL
Oil Changed		Changed				US 34994
Sample Status		NORMAL				Contact: ROBERT ANTONA
Sample Status		NORWAL				roberta@gbmarinegroup.com
OIL CONDITION						T: (609)384-5290 F:
Visc @ 100°C	cSt	<b>13.2</b>				г.
Base Number (BN)	mg KOH/g	<b>9.1</b>				
Oxidation (PA)	%	67				
CONTAMINATION						Resample at the next service interv to monitor.All component wear rat
Water	%	NEG				are normal. There is no indication any contamination in the oil. The E
Soot %	%	0.3				result indicates that there is suitab
Nitration (PA)	%	68				alkalinity remaining in the oil. The
Sulfation (PA)	%	58				condition of the oil is acceptable for
Glycol	%	NEG				the time in service.
Fuel	%	<1.0				
Silicon	ppm	□7				
Sodium	ppm	<b>1</b>				
Potassium	ppm	<b>4</b>				
WEAR METALS						
Iron	ppm	<b>1</b> 9				
Copper	ppm	∎4				<b>D</b> : .
Lead	ppm	<b>0</b>				Diagnosis
Tin	ppm	0				
Aluminum	ppm	2				
Chromium	ppm	0				
Molybdenum	ppm	62				
Nickel	ppm	0				
Titanium	ppm	0				
Silver	ppm	0				
Manganese	ppm	0				
Vanadium	ppm	0				
ADDITIVES						
Calcium	ppm	<b>1193</b>				
Magnesium	ppm	1049				
Zinc		1306				
Phosphorus	ppm ppm	1080				
Barium						
Boron	ppm ppm	<b>1</b> 3				<b>Depot:</b> VP531377
	PPIII					

Contact/Location: ROBERT ANTONA - VP531377

04 Apr 2024

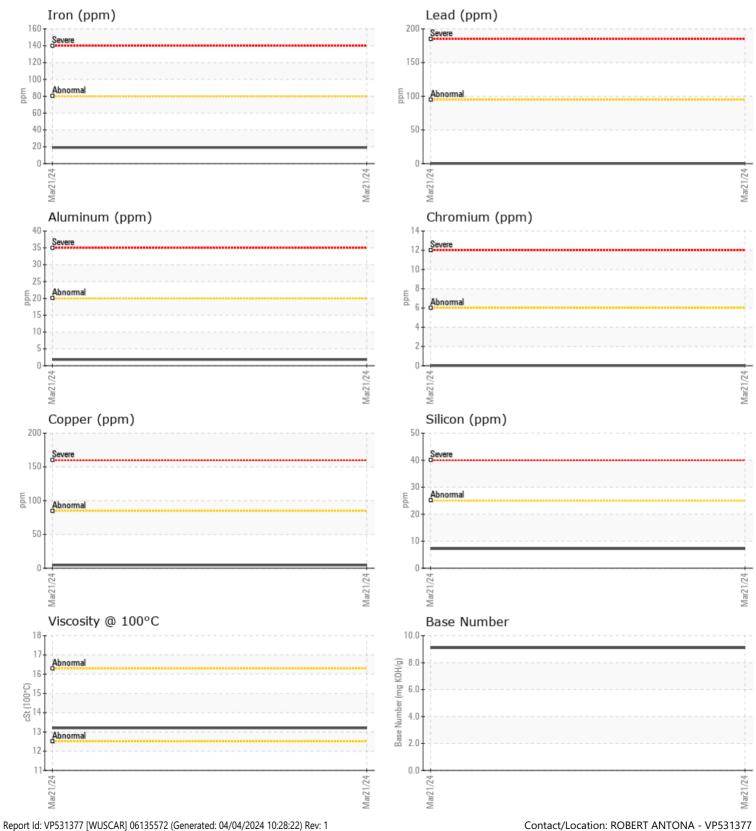
Report Date:



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## GRAPHS



Contact/Location. ROBERT ANTONA