## **OIL ANALYSIS REPORT**

## RICHARD FABIAN DANIEL/502769 VOLVO PENTA A807457 - PORT DIESEL ENGINE

Sample No: VPA059263

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

SAMPLE INFORMAT	TION					
Sample Number		VPA059263	VPA043493			-
Sample Date		26 Mar 2024	27 Sep 2022			Endor Marine LLC - Coastal Marine - 1521
Machine Hours		362	287			4300 11th Ave. NW
Oil Hours		0	0			SEATTLE, WA
Oil Changed		Changed	N/A			US 98107
Sample Status		ABNORMAL	ATTENTION			Contact: WILLOW YANARELLA
Sumple Status		ABRORIAL	ATTENTION	_		service@coastalmarineengine.com
OIL CONDITION						T: (206)784-3703
Visc @ 100°C	cSt	13.5	13.7			F: (206)784-8823
Base Number (BN)		9.6	10.8			
Oxidation (PA)	%	61	65			Diagnosis
CONTAMINATION						Oil and filter change at the time of sampling has been noted. No corrective action is recommended at
Water	%	NEG	NEG			this time. Resample at the next
Soot %	%	0.5	0.6			service interval to monitor.Cylinder,
Nitration (PA)	%	67	70			crank, or cam shaft wear is indicated
Sulfation (PA)	%	55	59			There is no indication of any
Glycol	%	NEG	NEG			contamination in the oil. The BN result indicates that there is suitable
Fuel	%	<1.0	< 1.0			alkalinity remaining in the oil. The
Silicon	ppm	<b>15</b>	11			condition of the oil is acceptable for
Sodium	ppm	<b>  </b> <1	1			the time in service.
Potassium	ppm	7	7			
WEAR METALS						
Iron	ppm	<b>187</b>	124			-
Copper	ppm	25	20			
Lead	ppm	<1	2			
Tin	ppm	<b></b> <1	□ <1			
Aluminum	ppm	<b>1</b> 6	13			
Chromium	ppm	6	8			
Molybdenum	ppm	55	56			
Nickel	ppm	4	1			
Titanium	ppm	0	0			
Silver	ppm	0	0			
Manganese	ppm	<b>1</b>	<1			
Vanadium	ppm	0	0			
ADDITIVES						
Calcium	ppm	<b>1203</b>	1065			-
Magnesium	ppm	<b>1081</b>	941			
Zinc	ppm	1316	1202			
Phosphorus	ppm	1100	1024			
Barium	ppm	0				
Boron	ppm	7	2			<b>Depot:</b> VP794951
	1.1	-				Unique No: 10953994
						Signed: Sean Felton

ot: VP794951 10953994 ue No: Sean Felton Signed: Report Date: 03 Apr 2024

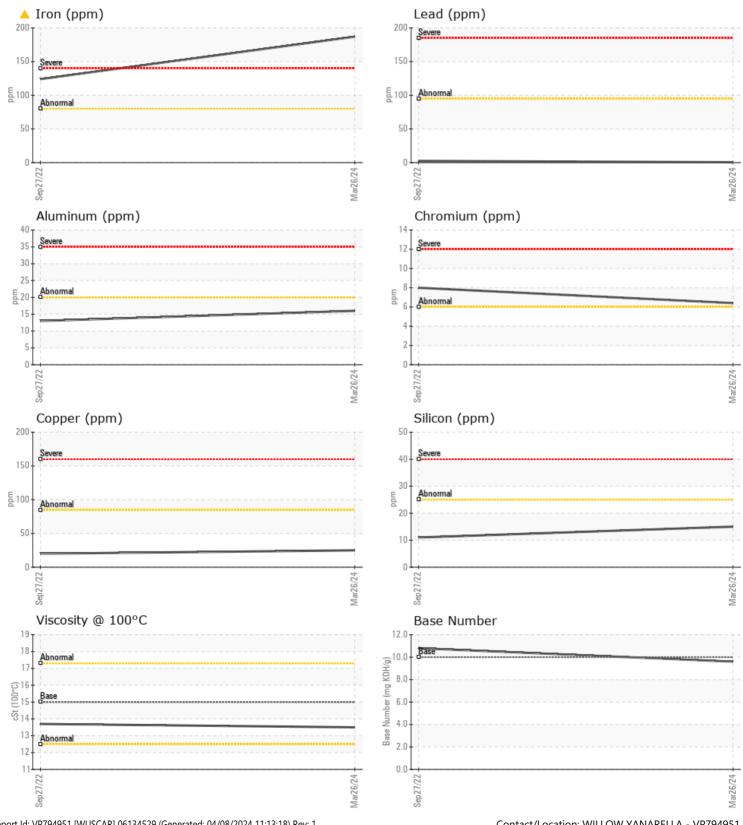
Contact/Location: WILLOW YANARELLA - VP794951



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## GRAPHS



Report Id: VP794951 [WUSCAR] 06134529 (Generated: 04/08/2024 11:13:18) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951