## **OIL ANALYSIS REPORT**

### TIMOTHY ATTWELL DANIEL/502587 VOLVO PENTA A387561 - DIESEL ENGINE

Sample No: VPA059055

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

Sample Number		VPA059055	 	
Sample Date		12 Dec 2023	 	
Machine Hours		842	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.3	 	
Base Number (BN)	mg KOH/g	9.5	 	
Oxidation (PA)	%	59	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	<b>1</b>	 	
Nitration (PA)	%	68	 	
Sulfation (PA)	%	56	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>12</b>	 	
Sodium	ppm	3	 	
Potassium	ppm	5	 	
WEAR METALS				
Iron	ppm	<b>102</b>	 	
Copper	ppm	9	 	
Lead	ppm	□<1	 	
Tin	ppm	2	 	
Aluminum	ppm	9	 	
Chromium	ppm	9	 	
Molybdenum	ppm	64	 	
Nickel	ppm	2	 	
Titanium	ppm	<b>■</b> <1	 	
Silver	ppm	0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	<b>1086</b>	 	
Magnesium	ppm	985	 	
	ppm	<b>1324</b>	 	
Zinc				
Zinc Phosphorus	ppm	<b>1060</b>	 	
Zinc	ppm ppm ppm	□ 1060 □ 0 □ 2	 	

VOLVO PENTA

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

#### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP794951

 Unique No:
 10795638

 Signed:
 Don Baldridge

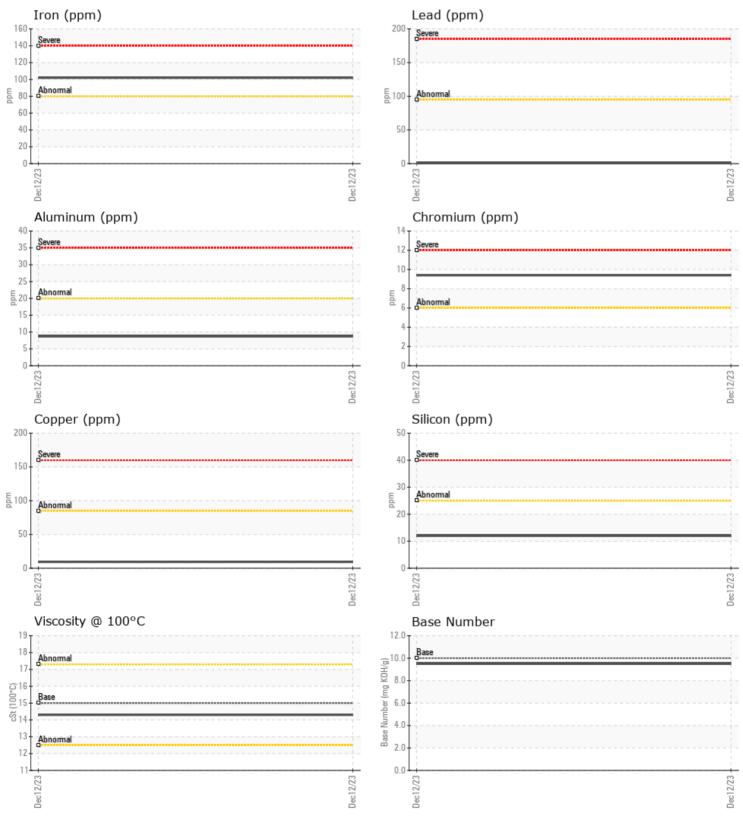
 Report Date:
 21 Dec 2023

Contact/Location: WILLOW YANARELLA - VP794951

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#### GRAPHS



Report Id: VP794951 [WUSCAR] 06040409 (Generated: 12/22/2023 15:01:55) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951