## **OIL ANALYSIS REPORT**

## DARIN FITZGERALD PATRICK/501841-5250 VOLVO PENTA 7008480224 - PORT DIESEL ENGINE

#### Sample No: VPA056546

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

Sample Number		VPA056546		 
Sample Date		05 Jul 2023		 
Machine Hours		179		 
Oil Hours		0		 
Oil Changed		Changed		 
Sample Status		NORMAL		 
	_	NORMAL	_	_
OIL CONDITION				
Visc @ 100°C	cSt	13.9		 
Base Number (BN)	mg KOH/g	<b>10.3</b>		 
Oxidation (PA)	%	57		 
CONTAMINATION				
Soot %	%	0.7		 
Nitration (PA)	%	53		 
Sulfation (PA)	%	55		 
Glycol	%	NEG		 
Fuel	%	<1.0		 
Silicon	ppm	<b>1</b> 3		 
Sodium	ppm	4		 
Potassium	ppm	0		 
WEAR METALS		= 25		
Iron	ppm	25		 
Copper	ppm	22		 
Lead <del>-</del> ·	ppm	0		 
Tin	ppm	0		 
Aluminum	ppm	3		 
Chromium	ppm	2		 
Molybdenum	ppm	63		 
Nickel	ppm	∎1		 
Titanium	ppm	<b>■</b> <1		 
Silver	ppm	0		 
Mananaaa	ppm	■ <1		 
Manganese	nnm	<1		 
Vanadium	ppm			
	ppm			
Vanadium ADDITIVES Calcium	ppm	<b>1295</b>		 
Vanadium ADDITIVES		■ 1295 1051		 
Vanadium ADDITIVES Calcium	ppm			
Vanadium ADDITIVES Calcium Magnesium	ppm ppm	1051		 
Vanadium ADDITIVES Calcium Magnesium Zinc	ppm ppm ppm	1051 1337		 

#### 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 suitable for further service.

 Unique No:
 10563366

 Signed:
 Jonathan Hester

 Report Date:
 20 Jul 2023

VP794951

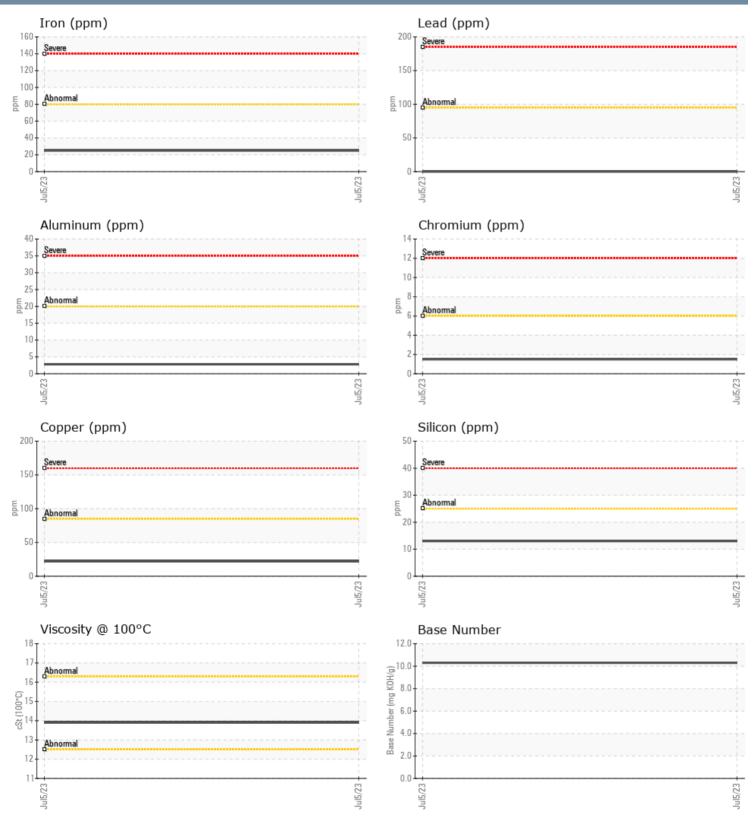
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#### GRAPHS



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