OIL ANALYSIS REPORT

VOLVO PENTA

BOB WADDELL SAM VOLVO PENTA 7011292869 - PORT DIESEL ENGINE

Sample No: VPA059075

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA059075	VPA047105	
Sample Date		25 Sep 2023	06 Apr 2022	
Machine Hours		855	321	
Oil Hours		264	170	
Oil Changed		Changed	Changed	
Sample Status		ATTENTION	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	12.3	12.8	
Base Number (BN)	mg KOH/g	9.7	7.9	
Oxidation (PA)	%	56	51	
	,,,	50	51	
CONTAMINATION				
Soot %	%	0.3	0.1	
Nitration (PA)	%	45	63	
Sulfation (PA)	%	53	49	
Glycol	%	NEG	NEG	
Fuel	%	▲ 2.4	<1.0	
Silicon				
	ppm	7	5	
Sodium	ppm	■ 11	1	
Potassium	ppm	 <1	2	
WEAR METALS				
Iron	ppm	7	5	
Copper	ppm	16	7	
Lead	ppm	□ <1	<1	
Tin	ppm		<1	
Aluminum	ppm	■ <1	3	
Chromium	ppm	0	<1	
Molybdenum	ppm	60	75	
Nickel	ppm	0	0	
Titanium	ppm	 <1	□ <1	
Silver	ppm	0	0	
Manganese	ppm	0	□ <1	
Vanadium		0	0	
vanauluiti	ppm	0	U	
ADDITIVES				
Calcium	ppm	1125	1975	
Magnesium	ppm	1029	179	
Zinc	ppm	1311	1196	
Phosphorus	ppm	1059	1032	
Barium	ppm	0	0	
Boron		2	76	
BOION	ppm	Z	/0	

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

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

 Depot:
 VP794951

 Unique No:
 10669741

 Signed:
 Jonathan Hester

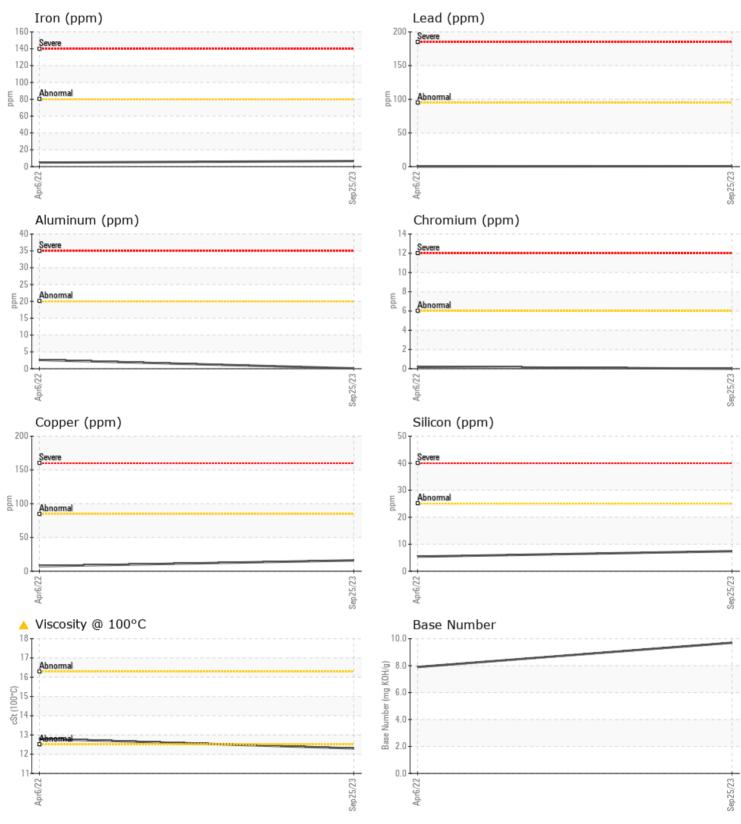
 Report Date:
 02 Oct 2023

Contact/Location: WILLOW YANARELLA - VP794951

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GRAPHS



Report Id: VP794951 [WUSCAR] 05963190 (Generated: 10/04/2023 17:45:38) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951