# **OIL ANALYSIS REPORT**

# **VOLVO PENTA**

## PLATYPUS MARINE SAM VOLVO PENTA A 1089740 - PORT DIESEL ENGINE

Sample No: VPA055654

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number		VPA055654	 	
Sample Date		29 Jun 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	∎13.1	 	
Base Number (BN)	mg KOH/g	<b>10.6</b>	 	
Oxidation (PA)	%	78	 	
CONTAMINATION				
Soot %	%	0.4	 	
Nitration (PA)	%	52	 	
Sulfation (PA)	%	62	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<u> </u>	 	
Sodium	ppm	9	 	
Potassium	ppm	8	 	
WFAR MFTALS				

#### WEAR METALS

Iron	ppm	32	 	
Copper	ppm	<b>1</b> 7	 	
Lead	ppm	9	 	
Tin	ppm	3	 	
Aluminum	ppm	<b>A</b> 70	 	
Chromium	ppm	6	 	
Molybdenum	ppm	37	 	
Nickel	ppm	2	 	
Titanium	ppm	<b></b> <1	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	<1	 	

#### ADDITIVES

Calcium	ppm	1755	 	
Magnesium	ppm	582	 	
Zinc	ppm	<b>1174</b>	 	
Phosphorus	ppm	985	 	
Barium	ppm	0	 	
Boron	ppm	75	 	

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

We advise that you check all areas where dirt can enter the system. 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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:
 10552921

 Signed:
 Angela Borella

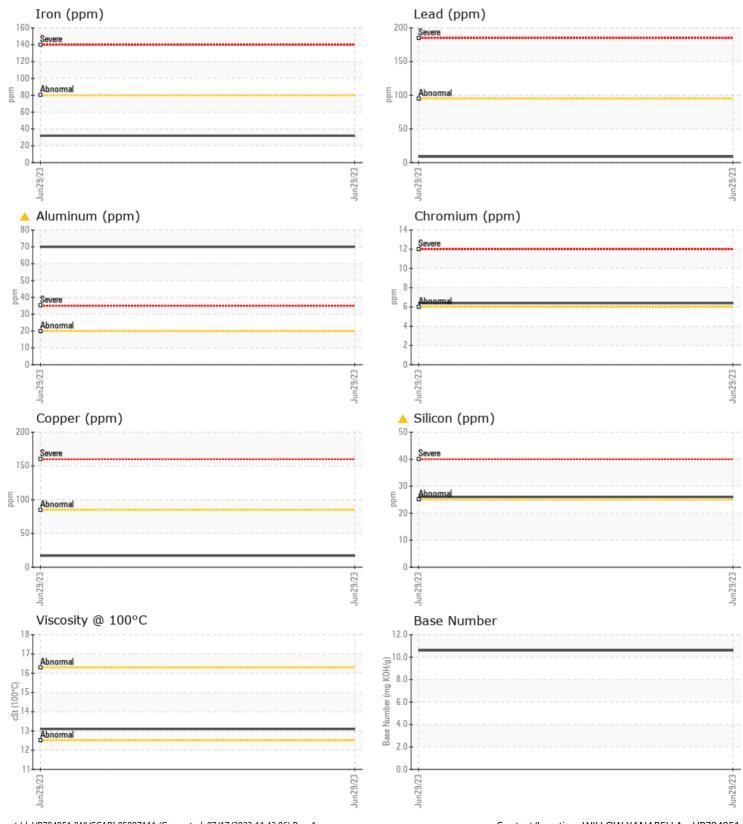
 Report Date:
 14 Jul 2023

Contact/Location: WILLOW YANARELLA - VP794951

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#### GRAPHS



Report Id: VP794951 [WUSCAR] 05897111 (Generated: 07/17/2023 11:43:06) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951