OIL ANALYSIS REPORT

MARINE MAX TAP497606 VOLVO PENTA 20132209453 - STARBOARD DIESEL ENGINE

Sample No: VPA039638

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA039638	 	
Sample Date		27 Jun 2023	 	
Machine Hours		159	 	
Oil Hours		159	 	
Oil Changed		Changed	 	
Sample Status		MARGINAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	12.9	 	
Base Number (BN)	mg KOH/g	8.0	 	
Oxidation (PA)	%	36	 	
CONTAMINATION				
Soot %	%	0.5	 	
Nitration (PA)	%	47	 	
Sulfation (PA)	%	44	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	37	 	
Sodium	ppm	0	 	
Potassium	ppm	47	 	
WEAR METALS				
Iron	ppm	26	 	

Copper 17 ppm Lead **||** <1 ppm Tin 3 ppm Aluminum ppm Chromium ppm **||** <1 Molybdenum <1 ppm Nickel ■ <1 ppm Titanium 0 🔲 ppm Silver ppm 0 🔲 Manganese 3 ppm

ADDITIVES

ppm

Vanadium

Calcium	ppm	1244	 	
Magnesium	ppm	886	 	
Zinc	ppm	1222	 	
Phosphorus	ppm	1049	 	
Barium	ppm	0	 	
Boron	ppm	0	 	

FDDA TAMPA

TAMPA, FL US Contact: KYLE SUTLEY k.sutley@ssss.com T: (813)918-8518 E-

VOLVO Penta

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 VP208641

 Unique No:
 10545723

 Signed:
 Doug Bogart

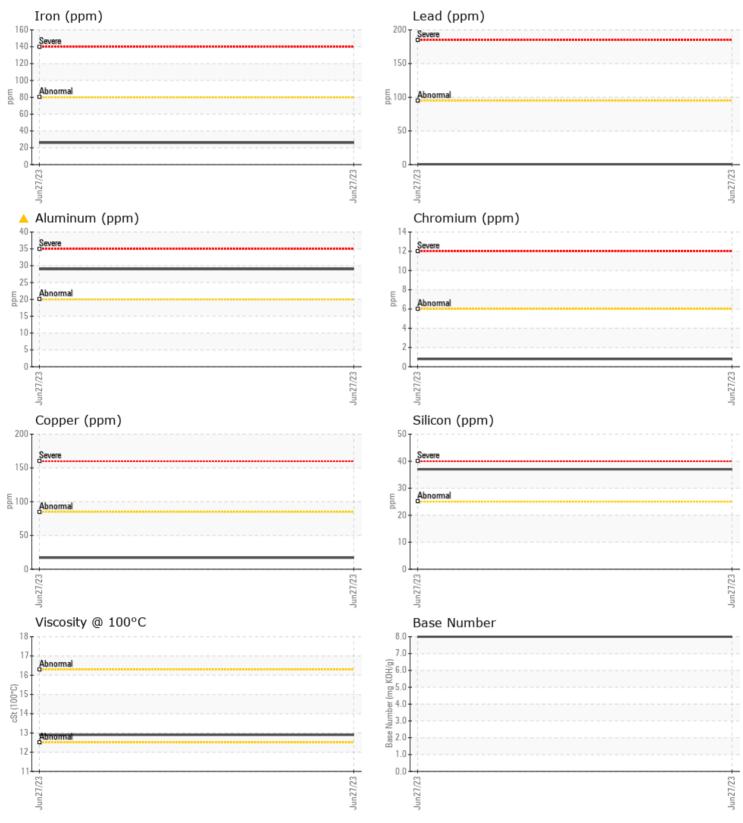
 Report Date:
 06 Jul 2023

0

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP208641 [WUSCAR] 05889913 (Generated: 07/07/2023 04:15:01) Rev: 1

Contact/Location: KYLE SUTLEY - VP208641