OIL ANALYSIS REPORT

STEVE MARTEN 505526 VOLVO PENTA 1012495449 - STARBOARD DIESEL ENGINE

Sample No: VPA048811

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA048811	VPA022999	
Sample Date		14 Sep 2023	30 Sep 2019	
Machine Hours		533	475	
Oil Hours		23	70	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.3	14.2	
Base Number (BN)	mg KOH/g	10.6		
Oxidation (PA)	%	60	55	
CONTAMINATION				
Soot %	%	0	1.8	
Nitration (PA)	%	52	63	
Sulfation (PA)	%	60	59	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	3	2	
Sodium	ppm	7	8	
Potassium	ppm	<1	<1	
WEAR METALS				
Iron	ppm	2	14	
Copper	ppm	2	4	
Lead	ppm	■ <1	0	
Tin	ppm	 <1	<1	
Aluminum	ppm	2	1	
Chromium	ppm	□ <1	 <1	
Molybdenum	ppm	65	59	
Nickel	ppm	0	 <1	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	□ <1	 <1	
Vanadium	ppm	0	0	
ADDITIVES				

Calcium	ppm	1088	1020	 	
Magnesium	ppm	976	934	 	
Zinc	ppm	1297	1070	 	
Phosphorus	ppm	1088	960	 	
Barium	ppm	0	0	 	
Boron	ppm	0	4	 	

Jefferson Beach Yacht Sales Inc

24400 Jefferson Ave. SAINT CLAIR SHORES, MI US 48080 Contact: DENNIS BUTT dbutt@jbys.com T: (866)490-5297 F:

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.

 Depot:
 VP297371

 Unique No:
 10656951

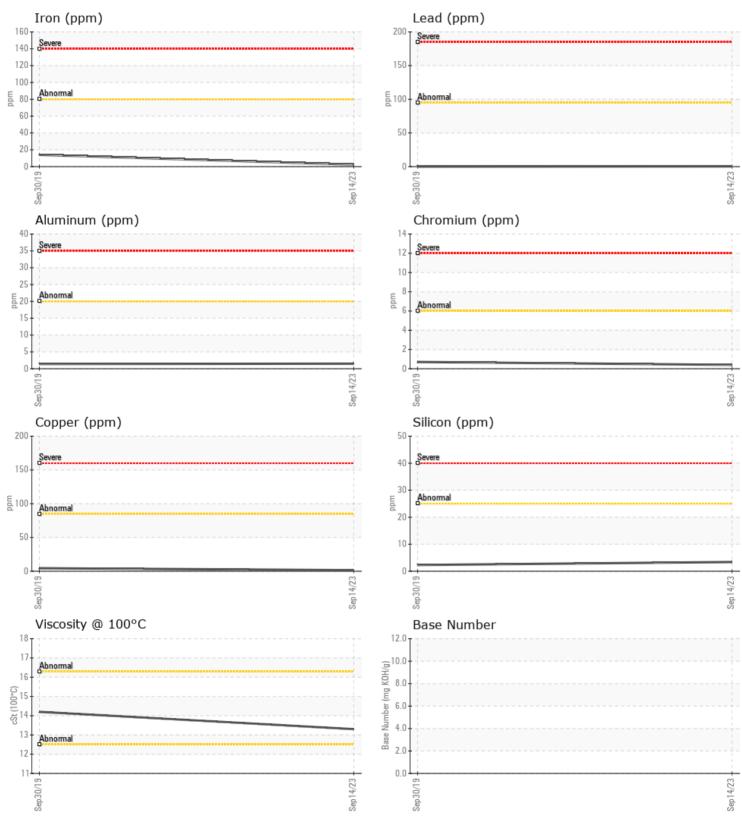
 Signed:
 Jonathan Hester

 Report Date:
 21 Sep 2023

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: DENNIS BUTT - VP297371