OIL ANALYSIS REPORT

FRED MARINO 546577 VOLVO PENTA A488686 - GASOLINE ENGINE

Sample No: VPA057590

Oil Type: VOLVO PENTA 10W40 FULL SYN

SAMPLE INFORMATION

Sample Number		VPA057590	 	
Sample Date		14 Oct 2023	 	
Machine Hours		365	 	
Oil Hours		20	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	16.4	 	
Base Number (BN)	mg KOH/g	 6.9	 	
Oxidation (PA)	%	8	 	
CONTAMINATION				
Soot %	%	0	 	
Nitration (PA)	%	6	 	
Sulfation (PA)	%	9	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	20	 	
Sodium	ppm	■ <1	 	
Potassium	ppm	2	 	

WEAR METALS

Iron	ppm	6	 	
Copper	ppm	38	 	
Lead	ppm	■<1	 	
Tin	ppm	 <1	 	
Aluminum	ppm	1	 	
Chromium	ppm	2	 	
Molybdenum	ppm	34	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	4	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1605	 	
Magnesium	ppm	23	 	
Zinc	ppm	731	 	
Phosphorus	ppm	644	 	
Barium	ppm	0	 	
Boron	ppm	2	 	

Boats By George Inc

18 State Route 149 LAKE GEORGE, NY US 12845-3501 Contact: DON MANAHER don@boatsbygeorge.com T: F:

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. 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 acceptable for the time in service.

 Depot:
 VP151865

 Unique No:
 10714094

 Signed:
 Angela Borella

 Report Date:
 31 Oct 2023

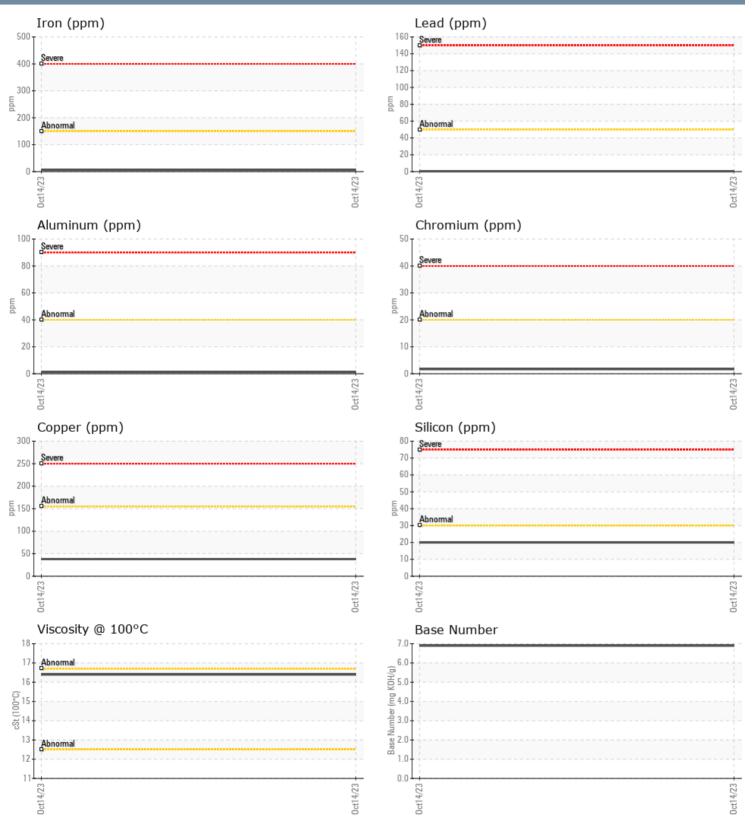
Contact/Location: DON MANAHER - VP151865



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP151865 [WUSCAR] 05991432 (Generated: 10/31/2023 15:27:45) Rev: 1

Contact/Location: DON MANAHER - VP151865