OIL ANALYSIS REPORT

STEVE WHITENER MATTHEW DOW VOLVO PENTA 7008473028 - STARBOARD DIESEL ENGINE

Sample No: VPA060804

Oil Type: VALVOLINE PREMIUM BLUE

Sample Number		VPA060804	VPA043332	
Sample Date		09 Oct 2023	04 Oct 2022	
Machine Hours		502	480	
Oil Hours		22	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	14.6	15.2	
Base Number (BN)	mg KOH/g	6.9	11.4	
Oxidation (PA)	%	67	76	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	0.3	1.7	
Nitration (PA)	%	58	92	
Sulfation (PA)	%	53	73	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	8	10	
Sodium	ppm	2	2	
Potassium	ppm	0	0	
WEAR METALS				
Iron	ppm	7	36	
Copper	ppm	1 3	102	
Lead	ppm	0	0	
Tin	ppm	 <1	 <1	
Aluminum	ppm	1	2	
Chromium	ppm		3	
Molybdenum	ppm	46	69	
Nickel	ppm	□ <1	2	
Titanium	ppm	0	0	
Silver	ppm	□ <1	2	
Manganese	ppm	<1	<1	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1108	1227	
Magnesium	ppm	868	1089	
Zinc	ppm	935	1380	
Phosphorus	ppm	719	1113	
Barium	ppm	0	0	
Boron	ppm	40	4	

Mobile Marine Services Inc

01032 Advance Rd South EAST JORDAN, MI US 49727 Contact: Duane Kujat mobilemarine@twin-valley.net T: Phone 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 acceptable for the time in service.

 Depot:
 VP443016

 Unique No:
 10742681

 Signed:
 Don Baldridge

 Report Date:
 18 Nov 2023

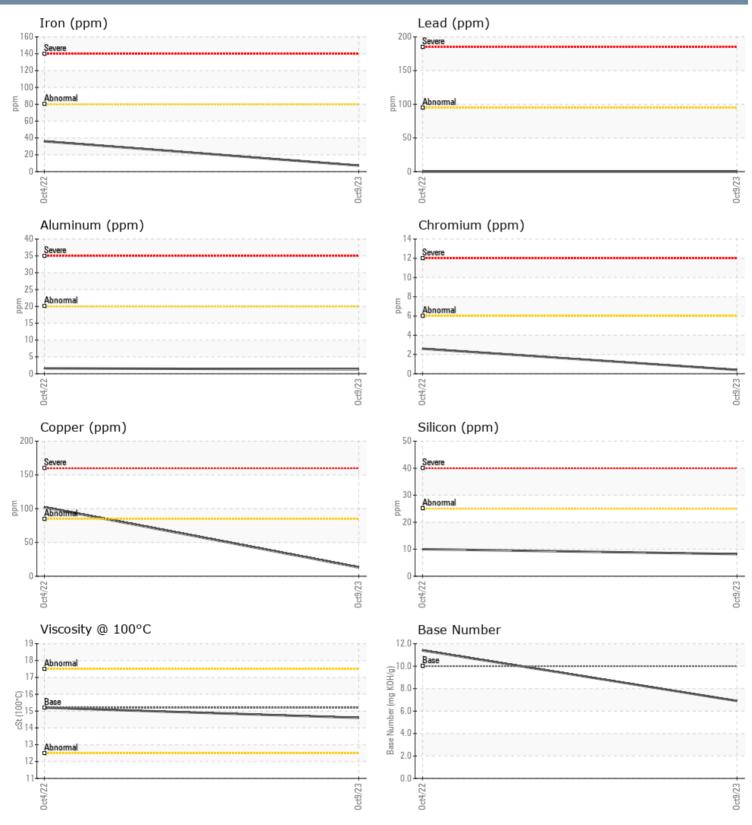
Contact/Location: Duane Kujat - VP443016

VOLVO PENTA

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP443016 [WUSCAR] 06008919 (Generated: 11/30/2023 10:06:56) Rev: 1

Contact/Location: Duane Kujat - VP443016