OIL ANALYSIS REPORT

MICHAEL WIDMER 7716312 VOLVO PENTA A1113712 - PORT DIESEL ENGINE

Sample No: VPA056481

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

Sample Number		VPA056481	VPA041517	
Sample Date		28 Jul 2023	12 Jul 2022	
Machine Hours		34	30	
Oil Hours		0	30	
Oil Changed		N/A	Changed	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.5	13.4	
Base Number (BN)	mg KOH/g	10.5	11.5	
Oxidation (PA)	%	57	84	
CONTAMINATION				
Soot %	%	0	0.1	
Nitration (PA)	%	38	44	
Sulfation (PA)	%	52	64	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	9	24	
Sodium	ppm	1	3	
Potassium	ppm	2	3	
WEAR METALS				
Iron	ppm	6	9	
Copper	ppm	1	7	
Lead	ppm	1	2	
Tin	ppm		2	
Aluminum	ppm	3	5	
Chromium	ppm	 <1	 <1	
Molybdenum	ppm	56	41	
Nickel	ppm	□ <1	□ <1	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	□ <1	□ <1	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1116	1684	
Magnesium	ppm	951	488	
Zinc	ppm	1341	1109	
Phosphorus	ppm	1081	948	
Barium	ppm	0	0	
Boron	ppm	10	83	

Pacific Power Group - VP981534 7215 S 228th St Kent, WA US 98032 Contact: PAT RYAN pryan@pacificpowergroup.com

ENTA

ryan@pacificpowergroup. : (253)520-5163

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:
 VP99031103

 Unique No:
 10605782

 Signed:
 Don Baldridge

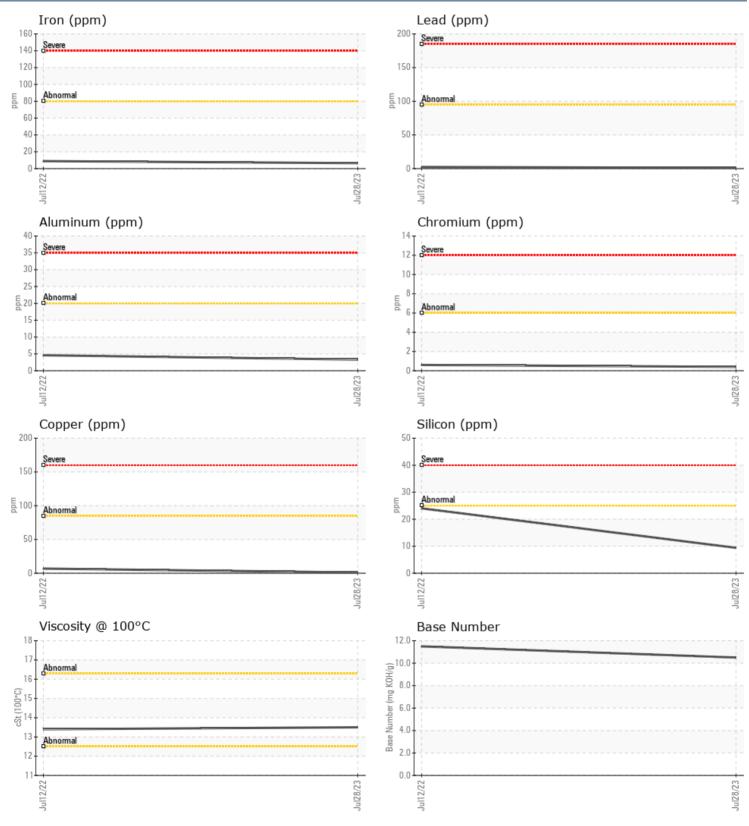
 Report Date:
 17 Aug 2023

Contact/Location: PAT RYAN - VP99031103

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP99031103 [WUSCAR] 05925835 (Generated: 08/17/2023 11:31:07) Rev: 1

Contact/Location: PAT RYAN - VP99031103