

OIL ANALYSIS REPORT

VOLVO PENTA

69016441221633 - PORT DIESEL ENGINE

Sample No: VPA056846

Oil Type: MOBIL DELVAC 1 5W40

SAMPLE INFORMATION

Sample Number	VPA056846	VPA033213	---	---
Sample Date	20 Jul 2023	06 Apr 2022	---	---
Machine Hours	1975	0	---	---
Oil Hours	0	200	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ABNORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 13.7	---	---
Base Number (BN)	mg KOH/g	█ 6.1	█ 7.1	---	---
Oxidation (PA)	%	█ 174	191	---	---

CONTAMINATION

Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	█ 73	69	---	---
Sulfation (PA)	%	█ 101	109	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 3	---	---
Sodium	ppm	█ <1	█ 1	---	---
Potassium	ppm	█ 0	█ 0	---	---

WEAR METALS

Iron	ppm	█ 29	█ 36	---	---
Copper	ppm	▲ 20	█ 13	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 3	█ 4	---	---
Chromium	ppm	█ 2	█ 2	---	---
Molybdenum	ppm	█ 51	█ 46	---	---
Nickel	ppm	█ 2	█ 2	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	█ 0	█ 0	---	---

ADDITIVES

Calcium	ppm	█ 1106	█ 1040	---	---
Magnesium	ppm	█ 984	█ 861	---	---
Zinc	ppm	█ 1444	█ 1157	---	---
Phosphorus	ppm	█ 1190	█ 969	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 110	█ 110	---	---

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2
NAPLES, FL
US 34104
Contact: KEITH SPICER
keith_advanceddiesel@yahoo.com
T: (239)580-8731
F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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: VPADVNP
Unique No: 10574156
Signed: Sean Felton
Report Date: 28 Jul 2023

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GRAPHS

