

OIL ANALYSIS REPORT

VOLVO PENTA

7011481290 - STARBOARD DIESEL ENGINE

Sample No: VPA061748

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA061748	VPA057388	---	---
Sample Date	06 May 2024	01 May 2024	---	---
Machine Hours	365	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.24	█ 13.35	---	---
Base Number (BN)	mg KOH/g	█ 7.7	█ 7.7	---	---
Oxidation (PA)	%	50	55	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.3	---	---
Nitration (PA)	%	55	47	---	---
Sulfation (PA)	%	48	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 7	---	---
Sodium	ppm	█ 2	█ <1	---	---
Potassium	ppm	█ 1	█ 1	---	---

WEAR METALS

Iron	ppm	█ 2	█ 8	---	---
Copper	ppm	█ 3	█ 13	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 87	█ 77	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1923	█ 1276	---	---
Magnesium	ppm	█ 102	█ 399	---	---
Zinc	ppm	█ 1138	█ 1118	---	---
Phosphorus	ppm	█ 918	█ 946	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 163	█ 433	---	---

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. 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: VPADVNAP
Unique No: 11019154
Signed: Doug Bogart
Report Date: 08 May 2024

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GRAPHS

