

OIL ANALYSIS REPORT



LAWSON 520-69 VOLVO PENTA A1060073 - PORT DIESEL ENGINE

Sample No: VPA057315
Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057315	VPA037302	---	---
Sample Date	29 Nov 2023	01 Nov 2023	---	---
Machine Hours	286	285	---	---
Oil Hours	0	80	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

Outstanding Marine
 PO Box 274
 GALENA, MD
 US 21635
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.7	13.7	---	---
Base Number (BN)	mg KOH/g	9.9	9.9	---	---
Oxidation (PA)	%	57	57	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0.3	---	---
Nitration (PA)	%	48	48	---	---
Sulfation (PA)	%	53	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	7	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	2	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 suitable for further service.

WEAR METALS

Iron	ppm	9	11	---	---
Copper	ppm	6	5	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	50	52	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1219	1185	---	---
Magnesium	ppm	776	790	---	---
Zinc	ppm	1218	1207	---	---
Phosphorus	ppm	1019	1014	---	---
Barium	ppm	0	4	---	---
Boron	ppm	28	28	---	---

Depot: VP153685
Unique No: 10816320
Signed: Sean Felton
Report Date: 04 Jan 2024

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GRAPHS

