

OIL ANALYSIS REPORT



LAWSON 520-69 VOLVO PENTA A 1060074 - STARBOARD DIESEL ENGINE

Sample No: VPA057300
Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057300	VPA037305	---	---
Sample Date	29 Nov 2023	31 Oct 2023	---	---
Machine Hours	286	285	---	---
Oil Hours	0	80	---	---
Oil Changed	N/A	Not Changd	---	---
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	13.5	13.6	---	---
Base Number (BN)	mg KOH/g	9.9	10.1	---	---
Oxidation (PA)	%	57	58	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0.3	---	---
Nitration (PA)	%	48	48	---	---
Sulfation (PA)	%	54	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	6	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	0	---	---

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	14	12	---	---
Copper	ppm	6	5	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	49	47	---	---
Nickel	ppm	<1	1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1247	1195	---	---
Magnesium	ppm	771	805	---	---
Zinc	ppm	1212	1249	---	---
Phosphorus	ppm	1026	1053	---	---
Barium	ppm	0	0	---	---
Boron	ppm	30	21	---	---

Depot: VP153685
Unique No: 10816322
Signed: Sean Felton
Report Date: 04 Jan 2024

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GRAPHS

