

OIL ANALYSIS REPORT



MARK LINTON SAM ONAN J180432133 - GENSET

Sample No: VPA053126

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA053126	VPA043231	---	---
Sample Date	09 May 2024	23 Sep 2022	---	---
Machine Hours	547	478	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.3	▲ 12.3	---	---
Base Number (BN)	mg KOH/g	8.6	■ 9.5	---	---
Oxidation (PA)	%	53	78	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	■ 0.1	---	---
Nitration (PA)	%	62	87	---	---
Sulfation (PA)	%	50	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 2.9	---	---
Silicon	ppm	9	■ 18	---	---
Sodium	ppm	0	■ 4	---	---
Potassium	ppm	4	■ 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	8	■ 27	---	---
Copper	ppm	8	■ 25	---	---
Lead	ppm	<1	■ 1	---	---
Tin	ppm	<1	■ <1	---	---
Aluminum	ppm	2	■ 5	---	---
Chromium	ppm	<1	■ 2	---	---
Molybdenum	ppm	16	■ 57	---	---
Nickel	ppm	<1	■ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	1	■ 4	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1447	■ 1990	---	---
Magnesium	ppm	691	■ 539	---	---
Zinc	ppm	890	■ 1247	---	---
Phosphorus	ppm	820	■ 1002	---	---
Barium	ppm	3	■ 8	---	---
Boron	ppm	105	■ 44	---	---

Depot: VP794951
Unique No: 11022872
Signed: Sean Felton
Report Date: 14 May 2024

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**VOLVO
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GRAPHS

