

OIL ANALYSIS REPORT

VOLVO PENTA

KISMET ANDREW VOLVO PENTA 7011479089 - STARBOARD DIESEL ENGINE

Sample No: VPA050592

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA050592	VPA046339	---	---
Sample Date	30 Oct 2023	01 Mar 2023	---	---
Machine Hours	222	192	---	---
Oil Hours	0	100	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	▲ 10.7	---	---
Base Number (BN)	mg KOH/g	█ 10.3	█ 8.3	---	---
Oxidation (PA)	%	53	54	---	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.4	---	---
Nitration (PA)	%	37	53	---	---
Sulfation (PA)	%	50	50	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 0.7	▲ 3.7	---	---
Silicon	ppm	█ 5	█ 47	---	---
Sodium	ppm	█ 0	█ 2	---	---
Potassium	ppm	█ 2	█ 2	---	---

WEAR METALS

Iron	ppm	█ 2	█ 20	---	---
Copper	ppm	█ 3	█ 61	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 2	█ 3	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 58	█ 8	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ 0	█ 2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 999	█ 2550	---	---
Magnesium	ppm	█ 871	█ 14	---	---
Zinc	ppm	█ 1153	█ 1104	---	---
Phosphorus	ppm	█ 1014	█ 950	---	---
Barium	ppm	█ 4	█ 0	---	---
Boron	ppm	█ 7	█ 51	---	---

GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

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F:

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.

Depot: VP531377

Unique No: 10723246

Signed: Jonathan Hester

Report Date: 03 Nov 2023

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GRAPHS

