

OIL ANALYSIS REPORT

VOLVO PENTA

STEVE KUTINA TAP538598 VOLVO PENTA A1 169657 - STARBOARD DIESEL ENGINE

Sample No: VPA045646

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA045646	---	---	---
Sample Date	06 Feb 2024	---	---	---
Machine Hours	205	---	---	---
Oil Hours	100	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

FDDA TAMPA

TAMPA, FL

US

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	75	---	---	---

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 acceptable for the time in service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 27	---	---	---
Copper	ppm	█ 20	---	---	---
Lead	ppm	█ 8	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 27	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1812	---	---	---
Magnesium	ppm	█ 535	---	---	---
Zinc	ppm	█ 1159	---	---	---
Phosphorus	ppm	█ 1007	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 52	---	---	---

Depot: VP208641

Unique No: 10874361

Signed: Sean Felton

Report Date: 14 Feb 2024

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GRAPHS

