

OIL ANALYSIS REPORT

VOLVO PENTA

BOB GUNTHER G135408 VOLVO PENTA 70112022390 - STARBOARD DIESEL ENGINE

Sample No: VPA050519

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

SAMPLE INFORMATION

Sample Number	VPA050519	---	---	---
Sample Date	21 Jun 2023	---	---	---
Machine Hours	121	---	---	---
Oil Hours	121	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.2	---	---	---
Base Number (BN)	mg KOH/g	■ 9.5	---	---	---
Oxidation (PA)	%	■ 56	---	---	---

CONTAMINATION

Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	■ 48	---	---	---
Sulfation (PA)	%	■ 53	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	▲ 2.4	---	---	---
Silicon	ppm	■ 46	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 6	---	---	---

WEAR METALS

Iron	ppm	■ 20	---	---	---
Copper	ppm	■ 23	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 55	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 2250	---	---	---
Magnesium	ppm	■ 298	---	---	---
Zinc	ppm	■ 1242	---	---	---
Phosphorus	ppm	■ 1021	---	---	---
Barium	ppm	■ 1	---	---	---
Boron	ppm	■ 215	---	---	---

GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

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F:

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. No other contaminants were detected in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: VP531377

Unique No: 10535817

Signed: Doug Bogart

Report Date: 02 Jul 2023

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GRAPHS

