

OIL ANALYSIS REPORT

VOLVO PENTA

BRIAN 7011484915 - STARBOARD DIESEL ENGINE

Sample No: VPA055861

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

SAMPLE INFORMATION

Sample Number	VPA055861	---	---	---
Sample Date	20 Mar 2024	---	---	---
Machine Hours	812	---	---	---
Oil Hours	194	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	● 12.1	---	---	---
Base Number (BN)	mg KOH/g	■ 9.4	---	---	---
Oxidation (PA)	%	■ 58	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	■ 53	---	---	---
Sulfation (PA)	%	■ 53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.2	---	---	---
Silicon	ppm	■ 10	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 3	---	---	---

WEAR METALS

Iron	ppm	■ 10	---	---	---
Copper	ppm	■ 26	---	---	---
Lead	ppm	■ 16	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 59	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1047	---	---	---
Magnesium	ppm	■ 937	---	---	---
Zinc	ppm	■ 1244	---	---	---
Phosphorus	ppm	■ 1076	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 2	---	---	---

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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. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VPROBJUP
Unique No: 10943212
Signed: Jonathan Hester
Report Date: 02 Apr 2024

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GRAPHS

