

OIL ANALYSIS REPORT

VOLVO PENTA

E-PAD CUMMINS/ONAN J200834730 - STARBOARD GENSET

Sample No: VPA049891
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA049891	---	---	---
Sample Date	14 Sep 2023	---	---	---
Machine Hours	82	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	---	---	---
Base Number (BN)	mg KOH/g	■ 9.2	---	---	---
Oxidation (PA)	%	65	---	---	---

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 5.4	---	---	---
Silicon	ppm	■ 26	---	---	---
Sodium	ppm	■ 12	---	---	---
Potassium	ppm	■ 4	---	---	---

WEAR METALS

Iron	ppm	■ 14	---	---	---
Copper	ppm	■ 10	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 59	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	1853	---	---	---
Magnesium	ppm	■ 675	---	---	---
Zinc	ppm	■ 1022	---	---	---
Phosphorus	ppm	■ 807	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 56	---	---	---

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Diagnosis

We recommend that you change the oil at the next available stoppage or outage. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP694356
Unique No: 10649109
Signed: Angela Borella
Report Date: 20 Sep 2023

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GRAPHS

