

OIL ANALYSIS REPORT

VOLVO PENTA

JAMES FLYNN 17601 CUMMINS 73515541 - STARBOARD DIESEL ENGINE

Sample No: VPA049973

Oil Type: VALVOLINE 15W40

SAMPLE INFORMATION

Sample Number	VPA049973	---	---	---
Sample Date	09 Feb 2024	---	---	---
Machine Hours	852	---	---	---
Oil Hours	72	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	76	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 114	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 55	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1118	---	---	---
Magnesium	ppm	█ 785	---	---	---
Zinc	ppm	█ 895	---	---	---
Phosphorus	ppm	█ 653	---	---	---
Barium	ppm	█ 11	---	---	---
Boron	ppm	█ 30	---	---	---

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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 suitable for further service.

Depot: VP151756
Unique No: 10882768
Signed: Sean Felton
Report Date: 16 Feb 2024

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GRAPHS

