

OIL ANALYSIS REPORT



WILL LAPORT 7719139 VOLVO PENTA A1025650 - DIESEL ENGINE

Sample No: VPA050874

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA050874	VPA042100	---	---
Sample Date	07 Mar 2024	29 Aug 2022	---	---
Machine Hours	539	374	---	---
Oil Hours	130	0	---	---
Oil Changed	Not Changd	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

Pacific Power Group - VP981534

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OIL CONDITION

Visc @ 100°C	cSt	13.2	14.3	---	---
Base Number (BN)	mg KOH/g	8.8	9.9	---	---
Oxidation (PA)	%	57	69	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	0.6	---	---
Nitration (PA)	%	68	93	---	---
Sulfation (PA)	%	52	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	30	17	---	---
Sodium	ppm	6	193	---	---
Potassium	ppm	18	13	---	---

WEAR METALS

Iron	ppm	33	254	---	---
Copper	ppm	16	14	---	---
Lead	ppm	3	16	---	---
Tin	ppm	3	5	---	---
Aluminum	ppm	19	120	---	---
Chromium	ppm	2	31	---	---
Molybdenum	ppm	14	11	---	---
Nickel	ppm	3	4	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	2	3	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	1463	1504	---	---
Magnesium	ppm	755	818	---	---
Zinc	ppm	893	999	---	---
Phosphorus	ppm	781	854	---	---
Barium	ppm	1	3	---	---
Boron	ppm	98	84	---	---

Depot: VP99031103

Unique No: 10942518

Signed: Jonathan Hester

Report Date: 28 Mar 2024

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GRAPHS

