

OIL ANALYSIS REPORT

VOLVO PENTA

QUINN HART 7720230 VOLVO PENTA A1141921 - CENTER DIESEL ENGINE

Sample No: VPA054008

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

SAMPLE INFORMATION

Sample Number	VPA054008	VPA045389	---	---
Sample Date	20 May 2024	05 Aug 2022	---	---
Machine Hours	385	178	---	---
Oil Hours	0	178	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 12.6	---	---
Base Number (BN)	mg KOH/g	█ 9.6	█ 10.9	---	---
Oxidation (PA)	%	61	84	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 0.3	---	---
Nitration (PA)	%	51	53	---	---
Sulfation (PA)	%	55	66	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 13	█ 29	---	---
Sodium	ppm	█ 3	█ 4	---	---
Potassium	ppm	█ 3	█ 3	---	---

WEAR METALS

Iron	ppm	█ 53	█ 27	---	---
Copper	ppm	█ 11	█ 14	---	---
Lead	ppm	█ 4	█ 4	---	---
Tin	ppm	█ 2	█ 4	---	---
Aluminum	ppm	█ 45	█ 21	---	---
Chromium	ppm	█ 5	█ 3	---	---
Molybdenum	ppm	█ 57	█ 42	---	---
Nickel	ppm	█ 5	█ 3	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ 2	---	---
Manganese	ppm	█ 1	█ 1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1169	█ 1583	---	---
Magnesium	ppm	882	480	---	---
Zinc	ppm	█ 1210	█ 1085	---	---
Phosphorus	ppm	█ 1045	█ 929	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 12	█ 57	---	---

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. 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 acceptable for the time in service.

Depot: VP99031103

Unique No: 11050451

Signed: Sean Felton

Report Date: 30 May 2024

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GRAPHS

