

OIL ANALYSIS REPORT



THOMAS RENENDETI AJD/502644 VOLVO PENTA 2004032555 - PORT DIESEL ENGINE

Sample No: VPA060075
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA060075	VPA043139	VPA037066	---
Sample Date	19 Feb 2024	24 Apr 2023	06 Dec 2021	---
Machine Hours	1493	1371	1257	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.4	13.6	---
Base Number (BN)	mg KOH/g	9.4	9.3	10	---
Oxidation (PA)	%	69	68	71	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.1	0.1	---
Nitration (PA)	%	73	71	72	---
Sulfation (PA)	%	57	58	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	6	4	---
Sodium	ppm	3	2	4	---
Potassium	ppm	<1	0	2	---

Diagnosis

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.

WEAR METALS

Iron	ppm	7	5	9	---
Copper	ppm	8	8	10	---
Lead	ppm	4	1	6	---
Tin	ppm	1	<1	1	---
Aluminum	ppm	3	3	10	---
Chromium	ppm	1	<1	1	---
Molybdenum	ppm	57	52	55	---
Nickel	ppm	3	2	2	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	1442	1318	1199	---
Magnesium	ppm	856	880	995	---
Zinc	ppm	1326	1265	1240	---
Phosphorus	ppm	1055	1009	1117	---
Barium	ppm	0	0	0	---
Boron	ppm	53	49	18	---

Depot: VP794951
Unique No: 10902235
Signed: Don Baldrige
Report Date: 02 Mar 2024

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GRAPHS

