

OIL ANALYSIS REPORT



LUCAS STOIOFF 505732 VOLVO PENTA 7011408098 - PORT DIESEL ENGINE

Sample No: VPA062108
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA062108	VPA041030	VPA029998	---
Sample Date	20 Mar 2024	19 Dec 2022	20 Jan 2022	---
Machine Hours	456	416	367	---
Oil Hours	456	50	100	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.2	12.8	---
Base Number (BN)	mg KOH/g	7.6	10.0	10.6	---
Oxidation (PA)	%	54	55	66	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.4	---
Nitration (PA)	%	53	43	63	---
Sulfation (PA)	%	50	52	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	17	7	17	---
Sodium	ppm	3	<1	2	---
Potassium	ppm	2	<1	1	---

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 suitable for further service.

WEAR METALS

Iron	ppm	20	4	12	---
Copper	ppm	72	11	38	---
Lead	ppm	0	0	2	---
Tin	ppm	<1	<1	11	---
Aluminum	ppm	3	0	0	---
Chromium	ppm	2	<1	<1	---
Molybdenum	ppm	66	58	52	---
Nickel	ppm	3	<1	1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	2	0	<1	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1157	1066	1252	---
Magnesium	ppm	1004	895	821	---
Zinc	ppm	1257	1167	1079	---
Phosphorus	ppm	1043	1006	1030	---
Barium	ppm	0	1	0	---
Boron	ppm	<1	2	17	---

Depot: VP297371
Unique No: 10943354
Signed: Jonathan Hester
Report Date: 02 Apr 2024

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**VOLVO
PENTA**

GRAPHS

