

OIL ANALYSIS REPORT



LUCAS STOIOFF 505732 VOLVO PENTA 7011408523 - STARBOARD DIESEL ENGINE

Sample No: VPA052175
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA052175	VPA041029	VPA029997	---
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	█ 13.6	█ 13.0	█ 12.8	---
Base Number (BN)	mg KOH/g	█ 7.6	█ 10.0	█ 10.5	---
Oxidation (PA)	%	53	54	65	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.1	█ 0.1	█ 0.4	---
Nitration (PA)	%	53	43	63	---
Sulfation (PA)	%	49	52	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 3	█ 6	█ 14	---
Sodium	ppm	█ <1	█ <1	█ 2	---
Potassium	ppm	█ 0	█ <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	█ 2	█ 3	█ 10	---
Copper	ppm	█ 4	█ 11	█ 36	---
Lead	ppm	█ 0	█ <1	█ 1	---
Tin	ppm	█ 0	█ <1	█ 11	---
Aluminum	ppm	█ 2	█ 0	█ 0	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 66	█ 59	█ 52	---
Nickel	ppm	█ 0	█ <1	█ 1	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ 0	█ 0	█ <1	---
Manganese	ppm	█ 0	█ <1	█ <1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	█ 2048	█ 1071	█ 1171	---
Magnesium	ppm	█ 188	█ 908	█ 829	---
Zinc	ppm	█ 1187	█ 1184	█ 1024	---
Phosphorus	ppm	█ 1036	█ 1016	█ 981	---
Barium	ppm	█ 0	█ 1	█ 0	---
Boron	ppm	97	█ <1	█ 13	---

Depot: VP297371
Unique No: 10943351
Signed: Don Baldrige
Report Date: 28 Mar 2024

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**VOLVO
PENTA**

GRAPHS

