

OIL ANALYSIS REPORT



CARSTENSEN JB VOLVO PENTA A 166202 - STARBOARD DIESEL ENGINE

Sample No: VPA051623
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA051623	VPA040215	---	---
Sample Date	13 Mar 2024	17 Sep 2021	---	---
Machine Hours	898	573	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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 WAKEFIELD, RI
 US 02879
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 15.5	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	67	88	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.3	---	---
Nitration (PA)	%	65	95	---	---
Sulfation (PA)	%	57	68	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	< 1.0	< 1.0	---	---
Silicon	ppm	█ 3	█ 4	---	---
Sodium	ppm	█ 0	█ 2	---	---
Potassium	ppm	█ 0	█ 4	---	---

WEAR METALS

Iron	ppm	█ 7	█ 14	---	---
Copper	ppm	█ 6	█ 16	---	---
Lead	ppm	█ 0	█ 5	---	---
Tin	ppm	█ 0	█ 2	---	---
Aluminum	ppm	█ 0	█ 2	---	---
Chromium	ppm	█ 0	█ < 1	---	---
Molybdenum	ppm	█ 61	█ 47	---	---
Nickel	ppm	█ 0	█ 3	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ < 1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1131	█ 2339	---	---
Magnesium	ppm	█ 1060	█ 126	---	---
Zinc	ppm	█ 1306	█ 1480	---	---
Phosphorus	ppm	█ 1112	█ 1116	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 1	█ 66	---	---

Depot: VP153811
Unique No: 10936192
Signed: Don Baldrige
Report Date: 21 Mar 2024

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**VOLVO
PENTA**

GRAPHS

