

OIL ANALYSIS REPORT

**VOLVO
PENTA**

EXLEY JB CATERPILLAR 4KG06490 - STARBOARD DIESEL ENGINE

Sample No: VPA044776

Oil Type: CAT DIESEL ENGINE OIL 15W40

SAMPLE INFORMATION

Sample Number	VPA044776	VPA044715	VPA035983	---
Sample Date	15 Nov 2023	01 Nov 2022	23 Nov 2021	---
Machine Hours	1151	1102	1064	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.7	█ 14.7	█ 15.0	---
Base Number (BN)	mg KOH/g	█ 10.4	█ 11.2	█ 8.9	---
Oxidation (PA)	%	█ 37	42	66	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.4	█ 0.2	█ 0.2	---
Nitration (PA)	%	█ 46	48	50	---
Sulfation (PA)	%	█ 43	46	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 5	█ 5	█ 3	---
Sodium	ppm	█ 3	█ 2	█ 6	---
Potassium	ppm	█ 2	█ 3	█ 8	---

WEAR METALS

Iron	ppm	█ 10	█ 11	█ 10	---
Copper	ppm	█ 2	█ <1	█ 1	---
Lead	ppm	█ 1	█ 0	█ <1	---
Tin	ppm	█ <1	█ <1	█ <1	---
Aluminum	ppm	█ <1	█ <1	█ <1	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ 2	█ 5	█ 4	---
Nickel	ppm	█ <1	█ 0	█ <1	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ <1	█ 0	█ <1	---
Manganese	ppm	█ <1	█ <1	█ <1	---
Vanadium	ppm	<1	0	<1	---

ADDITIVES

Calcium	ppm	█ 1370	█ 1571	█ 2306	---
Magnesium	ppm	█ 1189	█ 994	█ 25	---
Zinc	ppm	█ 1268	█ 1278	█ 1182	---
Phosphorus	ppm	█ 1042	█ 1066	█ 1050	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 5	█ 34	█ 182	---

Point Judith Marina

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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.

Depot: VP153811
Unique No: 10755297
Signed: Sean Felton
Report Date: 27 Nov 2023

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GRAPHS

