

OIL ANALYSIS REPORT

VOLVO PENTA

MJC/501523 VOLVO PENTA A1061822 - CENTER DIESEL ENGINE

Sample No: VPA048679

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

Sample Number	VPA048679	---	---	---
Sample Date	14 Aug 2023	---	---	---
Machine Hours	200	---	---	---
Oil Hours	174	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

North Harbor Diesel Inc

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	73	---	---	---

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.

CONTAMINATION

Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	86	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 12	---	---	---
Sodium	ppm	█ < 1	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 54	---	---	---
Copper	ppm	█ 29	---	---	---
Lead	ppm	█ 8	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 15	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 55	---	---	---
Nickel	ppm	█ 6	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1154	---	---	---
Magnesium	ppm	█ 930	---	---	---
Zinc	ppm	█ 1197	---	---	---
Phosphorus	ppm	█ 999	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 14	---	---	---

Depot: VP179089
Unique No: 10617203
Signed: Doug Bogart
Report Date: 24 Aug 2023

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GRAPHS

