

OIL ANALYSIS REPORT

VOLVO PENTA

DAVID LEIMAN CATERPILLAR X9Y00148 - PORT DIESEL ENGINE

Sample No: VPA055881
Oil Type: SHELL 15W40

SAMPLE INFORMATION

Sample Number	VPA055881	---	---	---
Sample Date	18 Sep 2023	---	---	---
Machine Hours	753	---	---	---
Oil Hours	95	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

McDonnell Marine Service

63 Old Windsor Rd.
BLOOMFIELD, CT
US 06002-1404
Contact: Brian McDonnell
brmcdonnell@comcast.net
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 7.9	---	---	---
Oxidation (PA)	%	█ 63	---	---	---

CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	█ 56	---	---	---
Sulfation (PA)	%	█ 57	---	---	---
Glycol	%	█ NEG	---	---	---
Fuel	%	█ <1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

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.

WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 62	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	█ <1	---	---	---

ADDITIVES

Calcium	ppm	█ 2085	---	---	---
Magnesium	ppm	█ 276	---	---	---
Zinc	ppm	█ 1290	---	---	---
Phosphorus	ppm	█ 1035	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 376	---	---	---

Depot: VP153357
Unique No: 10660839
Signed: Don Baldrige
Report Date: 26 Sep 2023

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GRAPHS

