

OIL ANALYSIS REPORT

VOLVO PENTA

NORTHERN LIGHTS 9442-57354 - GENSET

Sample No: VPA051776

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA051776	VPA05757560	---	---
Sample Date	09 Aug 2023	27 Jan 2023	---	---
Machine Hours	1090	693	---	---
Oil Hours	0	693	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

NEWT MARINE

5 JONES ST
DUBUQUE, IA
US 52001
Contact: DON LEIK
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T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	█ 13.6	---	---
Base Number (BN)	mg KOH/g	7.7	8.4	---	---
Oxidation (PA)	%	76	66	---	---

CONTAMINATION

Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	79	69	---	---
Sulfation (PA)	%	58	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 21	█ 19	---	---
Sodium	ppm	█ 3	█ 3	---	---
Potassium	ppm	█ 27	█ 27	---	---

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	█ 29	█ 21	---	---
Copper	ppm	█ 13	█ 10	---	---
Lead	ppm	█ 8	█ 4	---	---
Tin	ppm	█ 2	█ 1	---	---
Aluminum	ppm	█ 7	█ 6	---	---
Chromium	ppm	█ 1	█ 1	---	---
Molybdenum	ppm	█ 75	█ 72	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1718	█ 1501	---	---
Magnesium	ppm	875	765	---	---
Zinc	ppm	█ 1337	█ 1199	---	---
Phosphorus	ppm	█ 941	█ 917	---	---
Barium	ppm	█ 0	█ 4	---	---
Boron	ppm	█ 22	█ 26	---	---

Depot: VP99298099
Unique No: 10593018
Signed: Don Baldrige
Report Date: 11 Aug 2023

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GRAPHS

