

OIL ANALYSIS REPORT

VOLVO PENTA

SCOTT GOTSCHOW 70112027009 - STARBOARD DIESEL ENGINE

Sample No: VPA044733

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA044733	---	---	---
Sample Date	08 Oct 2023	---	---	---
Machine Hours	500	---	---	---
Oil Hours	130	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	63	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	26	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1712	---	---	---
Magnesium	ppm	█ 279	---	---	---
Zinc	ppm	█ 1178	---	---	---
Phosphorus	ppm	█ 990	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 88	---	---	---

INTERSTATE POWER SYSTEMS

2901 E 78TH ST
MINNEAPOLIS, MN
US 55425

Contact: BRADY GARBRECHT
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T:
F:

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.

Depot: VP1103105
Unique No: 10695340
Signed: Don Baldrige
Report Date: 16 Oct 2023

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GRAPHS

