

OIL ANALYSIS REPORT

VOLVO PENTA

JUDSON AIN - VANQUISH VOLVO PENTA 70112052647 - STARBOARD DIESEL ENGINE

Sample No: VPA036689

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036689	---	---	---
Sample Date	15 Dec 2023	---	---	---
Machine Hours	60	---	---	---
Oil Hours	60	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

Larry's Lighthouse Marina

1250
AQUEBOGUE, NY
US 11931
Contact: MAX FUHLBRUGGE
info@lighthousemarina.com

T: x:

F: x:

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	---	---	---
Base Number (BN)	mg KOH/g	■ 7.3	---	---	---
Oxidation (PA)	%	52	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	62	---	---	---
Sulfation (PA)	%	47	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.0	---	---	---
Silicon	ppm	▲ 32	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 5	---	---	---

WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	■ 11	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 79	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 2080	---	---	---
Magnesium	ppm	■ 14	---	---	---
Zinc	ppm	■ 1199	---	---	---
Phosphorus	ppm	■ 1039	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 67	---	---	---

Depot: VP610438

Unique No: 10843046

Signed: Don Baldrige

Report Date: 25 Jan 2024

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GRAPHS

