

OIL ANALYSIS REPORT



HMCS MARGRET BROOK THALES VOLVO PENTA A771064 - STERNDRIVE - STARBOARD GEARBOX

Sample No: VPA060700
Oil Type: GEAR OIL SAE 90

SAMPLE INFORMATION

Sample Number	VPA060700	---	---	---
Sample Date	21 Jan 2024	---	---	---
Machine Hours	97	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

WESTERN BRANCH DIESEL

6881 BULLDOG DR N
CHARLESTON, SC
US 29406
Contact: MICHAEL JORDAN
mdjordan@wbdiesel.com
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F:

OIL CONDITION

Visc @ 40°C	cSt	■ 108	---	---	---
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CONTAMINATION

Water	%	● 5.00	---	---	---
Silicon	ppm	■ 10	---	---	---
Sodium	ppm	▲ 276	---	---	---
Potassium	ppm	■ 10	---	---	---

WEAR METALS

PQ		■ 27	---	---	---
Iron	ppm	▲ 283	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	▲ 19	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ 1	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 6	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 29	---	---	---
Magnesium	ppm	■ 39	---	---	---
Zinc	ppm	■ 30	---	---	---
Phosphorus	ppm	■ 1236	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 294	---	---	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Appearance is unacceptable. There is a high concentration of water present in the oil. The high sodium (Na) level indicates the possible presence of salt water. There is a high amount of visible silt present in the sample. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP1165983
Unique No: 10846419
Signed: Jonathan Hester
Report Date: 26 Jan 2024

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GRAPHS

