

OIL ANALYSIS REPORT



SMART DIESEL SERVICE LLC 1758 ZF 20328192 - INBOARD - PORT GEARBOX

Sample No: VPA059249
Oil Type: SHELL SAE 30

SAMPLE INFORMATION

Sample Number	VPA059249	---	---	---
Sample Date	19 Dec 2023	---	---	---
Machine Hours	803	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

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US 33325
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smartdieselservice@gmail.com
T: (954)258-8100
F:

OIL CONDITION

Visc @ 40°C	cSt	■ 83.08	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 10	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---

WEAR METALS

PQ		■ 17	---	---	---
Iron	ppm	■ 14	---	---	---
Copper	ppm	■ 11	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 28	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 59	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 879	---	---	---
Magnesium	ppm	■ 529	---	---	---
Zinc	ppm	■ 699	---	---	---
Phosphorus	ppm	■ 627	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 153	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal for OEM. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VPSMAPLA
Unique No: 10796232
Signed: Doug Bogart
Report Date: 20 Dec 2023

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GRAPHS

