

OIL ANALYSIS REPORT



JOE PLACE 815409M ZF 20333030 - INBOARD - PORT GEARBOX

Sample No: VPA060810

Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLE INFORMATION

Sample Number	VPA060810	VPA042502	---	---
Sample Date	30 Oct 2023	28 Jun 2022	---	---
Machine Hours	435	185	---	---
Oil Hours	100	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

Power Products Systems LLC
432 Warren Avenue, 432 Warren Ave.
PORTLAND, ME
US 04103
Contact: Joel Rumelhart
jrumelhart@nedda.com
T:
F:

OIL CONDITION

Visc @ 40°C	cSt	■ 87.5	■ 86.9	---	---
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CONTAMINATION

Silicon	ppm	■ 3	■ 6	---	---
Sodium	ppm	■ <1	■ 5	---	---
Potassium	ppm	■ 0	■ 0	---	---

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 condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		■ 18	■ 34	---	---
Iron	ppm	■ 12	■ 30	---	---
Copper	ppm	■ 13	■ 64	---	---
Lead	ppm	■ <1	■ 2	---	---
Tin	ppm	■ <1	■ 4	---	---
Aluminum	ppm	■ <1	■ 2	---	---
Chromium	ppm	■ 0	<1	---	---
Molybdenum	ppm	■ 74	■ 84	---	---
Nickel	ppm	■ 0	<1	---	---
Titanium	ppm	■ 0	■ 0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ 0	■ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 2468	■ 2221	---	---
Magnesium	ppm	■ 76	■ 238	---	---
Zinc	ppm	■ 1133	■ 1082	---	---
Phosphorus	ppm	■ 904	■ 938	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 4	■ 16	---	---

Depot: VP153549
Unique No: 10725287
Signed: Sean Felton
Report Date: 03 Nov 2023

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VOLVO PENTA

GRAPHS

