

OIL ANALYSIS REPORT



DAVID MCCARDEL MATTHEW DOW MERCURY MARINE OM974441 - ZEUS POD - STARBOARD GEARBOX

Sample No: VPA060793

Oil Type: MERCURY MARINE SAE 90 HIGH PRO

SAMPLE INFORMATION

Sample Number	VPA060793	VPA042471	VPA036110	---
Sample Date	09 Nov 2023	08 Dec 2022	16 Feb 2022	---
Machine Hours	620	554	471	---
Oil Hours	66	83	91	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	---

Mobile Marine Services Inc
 01032 Advance Rd South
 EAST JORDAN, MI
 US 49727
 Contact: Duane Kujat
 mobilemarine@twin-valley.net
 T: Phone
 F:

OIL CONDITION

Visc @ 40°C	cSt	165	103	101	---
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CONTAMINATION

Water	%	▲ 0.438	NEG	▲ 0.291	---
Silicon	ppm	2	3	<1	---
Sodium	ppm	0	<1	<1	---
Potassium	ppm	2	0	0	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		19	40	20	---
Iron	ppm	136	▲ 213	▲ 171	---
Copper	ppm	8	10	14	---
Lead	ppm	1	0	0	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	<1	3	1	---
Chromium	ppm	1	2	2	---
Molybdenum	ppm	67	5	9	---
Nickel	ppm	2	<1	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	2	2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	52	19	47	---
Magnesium	ppm	2	0	1	---
Zinc	ppm	16	61	39	---
Phosphorus	ppm	317	1205	1293	---
Barium	ppm	7	0	0	---
Boron	ppm	61	63	57	---

Depot: VP443016
Unique No: 10742958
Signed: Angela Borella
Report Date: 17 Nov 2023

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**VOLVO
PENTA**

GRAPHS

