

OIL ANALYSIS REPORT



MICHAEL EDMUNDS DILLON KOHLER 2182744 - STARBOARD GENSET

Sample No: VPA054899
Oil Type: VOLVO 10W40

SAMPLE INFORMATION

Sample Number	VPA054899	VPA055407	---	---
Sample Date	03 Apr 2024	28 Apr 2023	---	---
Machine Hours	49	43	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---

Endor Marine LLC - Coastal Marine - 152124
 4300 11th Ave. NW
 SEATTLE, WA
 US 98107
 Contact: WILLOW YANARELLA
 service@coastalmarineengine.com
 T: (206)784-3703
 F: (206)784-8823

OIL CONDITION

Visc @ 100°C	cSt	15.8	17.4	---	---
Base Number (BN)	mg KOH/g	6.8	6.1	---	---
Oxidation (PA)	%	31	25	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	38	33	---	---
Sulfation (PA)	%	35	30	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	6	---	---
Sodium	ppm	<1	<1	---	---
Potassium	ppm	0	<1	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	8	10	---	---
Copper	ppm	1	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	38	42	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1876	1857	---	---
Magnesium	ppm	10	14	---	---
Zinc	ppm	808	865	---	---
Phosphorus	ppm	707	729	---	---
Barium	ppm	0	0	---	---
Boron	ppm	7	9	---	---

Depot: VP794951
Unique No: 10965798
Signed: Sean Felton
Report Date: 10 Apr 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

