



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TOM MEYERS [PATRICK/503010-7250]

Machine Id
VOLVO PENTA 3950003863

Component
Starboard IPS

Fluid
GEAR OIL SAE 75W90 (7 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA061864	VPA061588	---
Sample Date		Client Info		22 Apr 2024	19 Apr 2024	---
Machine Age	hrs	Client Info		734	734	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		15	16	---
Iron	ppm	ASTM D5185m	>200	15	16	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		0	0	---
Lead	ppm	ASTM D5185m		0	0	---
Copper	ppm	ASTM D5185m		0	4	---
Tin	ppm	ASTM D5185m		<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

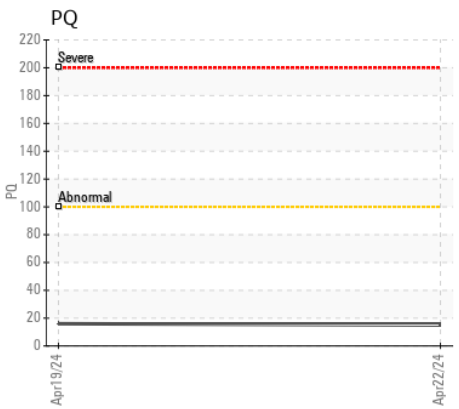
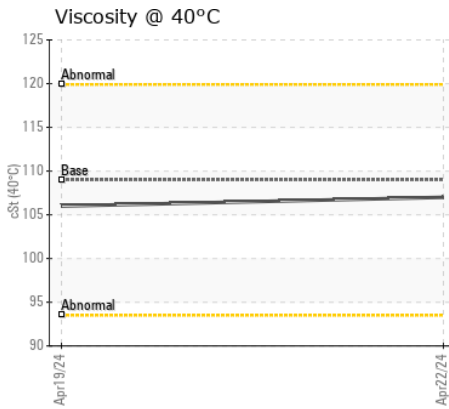
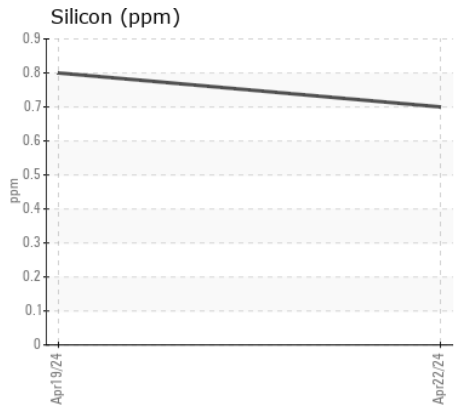
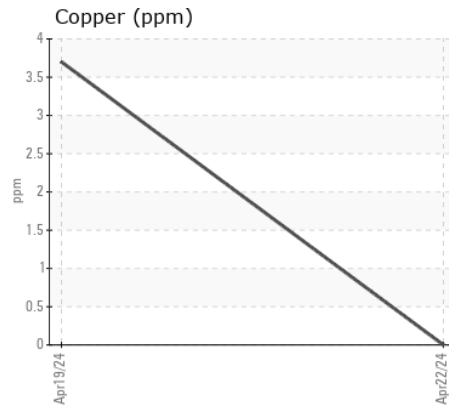
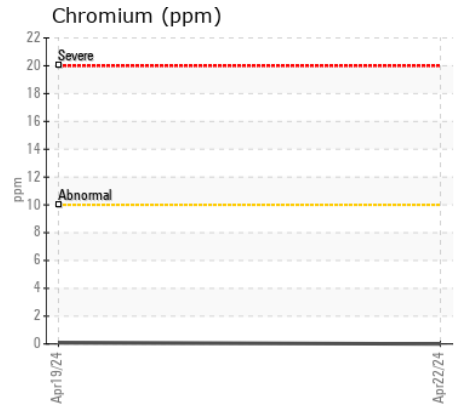
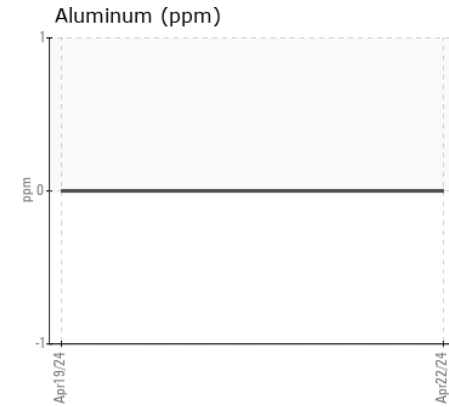
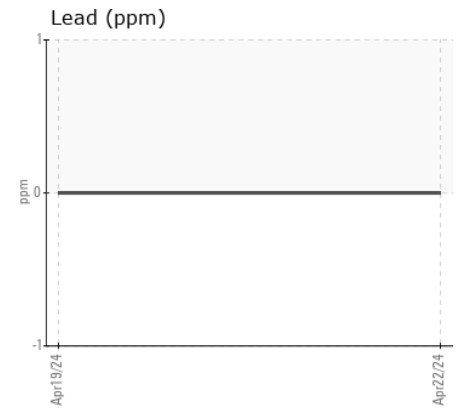
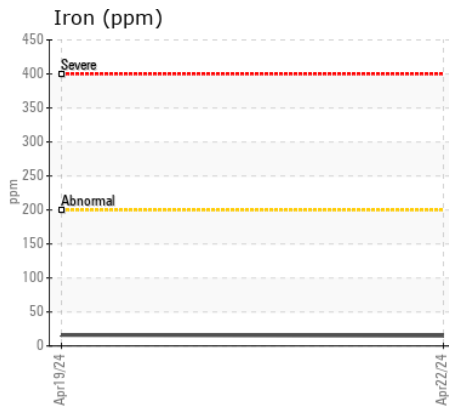
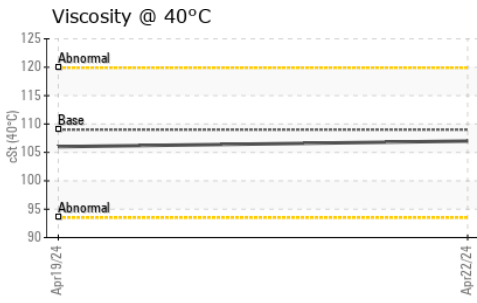
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<1	<1	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	2	---
Boron	ppm	ASTM D5185m	400	336	355	---
Barium	ppm	ASTM D5185m	200	0	1	---
Molybdenum	ppm	ASTM D5185m	12	0	0	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	12	13	12	---
Calcium	ppm	ASTM D5185m	150	14	8	---
Phosphorus	ppm	ASTM D5185m	1650	1482	1434	---
Zinc	ppm	ASTM D5185m	125	3	<1	---
Sulfur	ppm	ASTM D5185m	22500	28247	28499	---
Visc @ 40°C	cSt	ASTM D445	109	107	106	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA061864 **Received** : 25 Apr 2024
Lab Number : **06160717** **Tested** : 26 Apr 2024
Unique Number : 10996140 **Diagnosed** : 29 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: PQ)

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)