



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
IAN PORTER [SAM]
Machine Id
VOLVO PENTA 3194008292
Component
Center Right IPS
Fluid
GEAR OIL SAE 75W90 (4 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. All other component wear rates are normal.

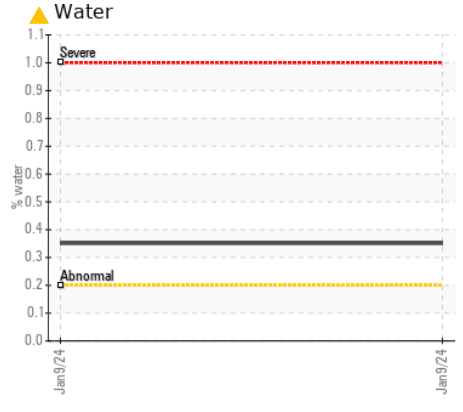
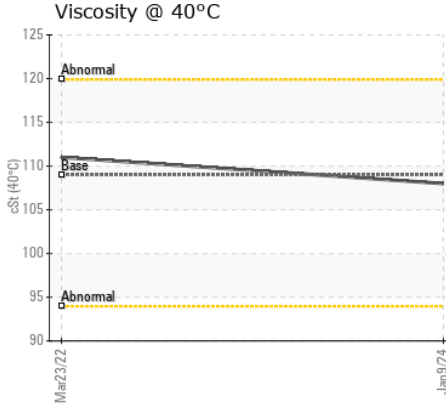
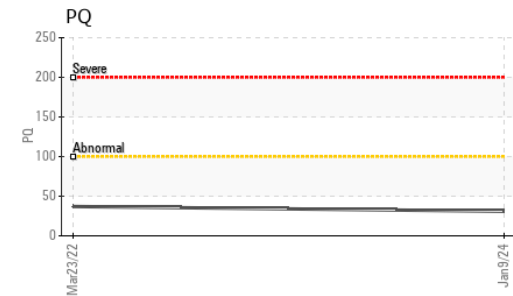
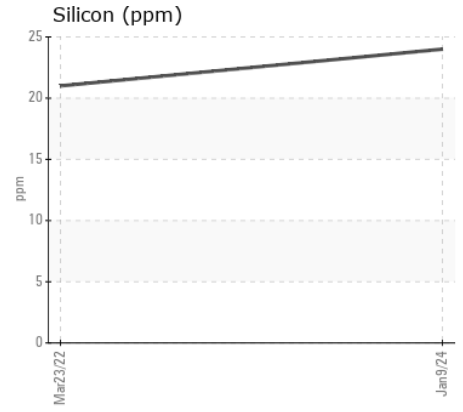
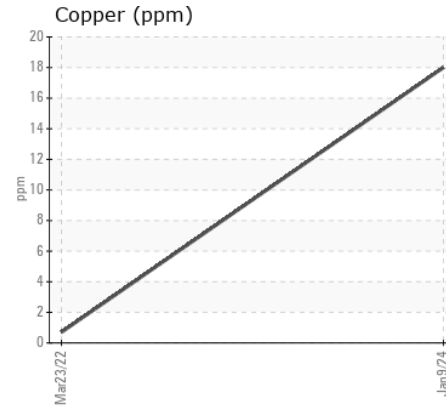
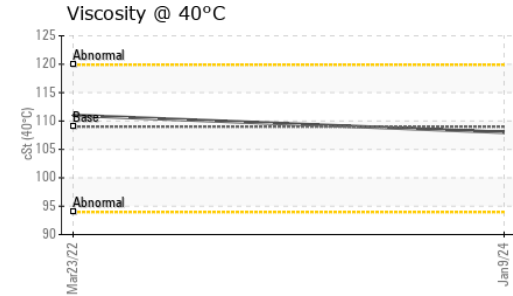
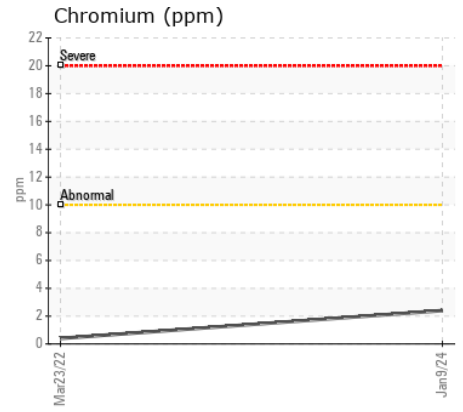
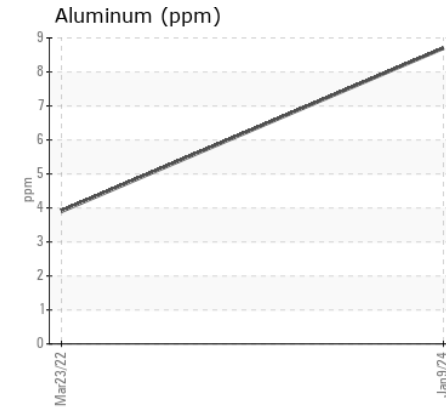
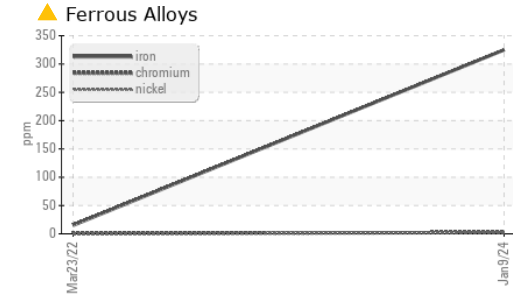
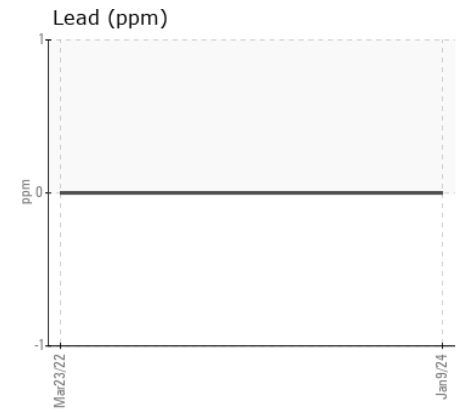
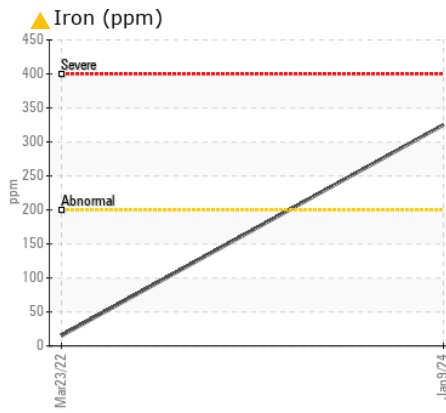
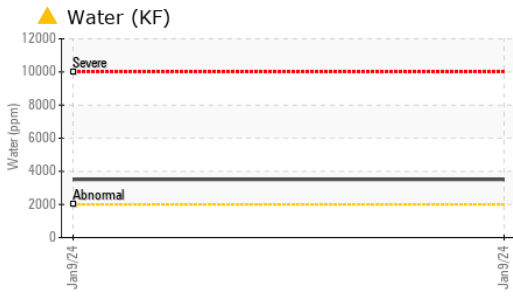
CONTAMINATION

There is a moderate concentration of water present in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA059222	VPA048327	---
Sample Date		Client Info		09 Jan 2024	23 Mar 2022	---
Machine Age	hrs	Client Info		1048	869	---
Oil Age	hrs	Client Info		192	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	NORMAL	---
PQ		ASTM D8184		31	37	---
Iron	ppm	ASTM D5185m	>200	▲ 325	15	---
Chromium	ppm	ASTM D5185m	>10	2	<1	---
Nickel	ppm	ASTM D5185m	>10	2	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m		9	4	---
Lead	ppm	ASTM D5185m		0	0	---
Copper	ppm	ASTM D5185m		18	<1	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m		24	21	---
Potassium	ppm	ASTM D5185m	>20	3	0	---
Water	%	ASTM D6304	>0.2	▲ 0.351	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3510	---	---
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	0.2%	NEG	---
Sodium	ppm	ASTM D5185m		25	<1	---
Boron	ppm	ASTM D5185m	400	257	307	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	2	2	---
Manganese	ppm	ASTM D5185m		6	<1	---
Magnesium	ppm	ASTM D5185m	12	8	<1	---
Calcium	ppm	ASTM D5185m	150	14	6	---
Phosphorus	ppm	ASTM D5185m	1650	1280	1396	---
Zinc	ppm	ASTM D5185m	125	14	0	---
Sulfur	ppm	ASTM D5185m	22500	23833	21143	---
Visc @ 40°C	cSt	ASTM D445	109	108	111	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA059222 **Received** : 18 Jan 2024
Lab Number : 06065175 **Diagnosed** : 22 Jan 2024
Unique Number : 10836557 **Diagnostician** : Sean Felton
Test Package : MOB 1 (Additional Tests: KF, PQ)

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)

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