



Machine Id
VOLVO PENTA 394002135

Component
Starboard IPS

Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

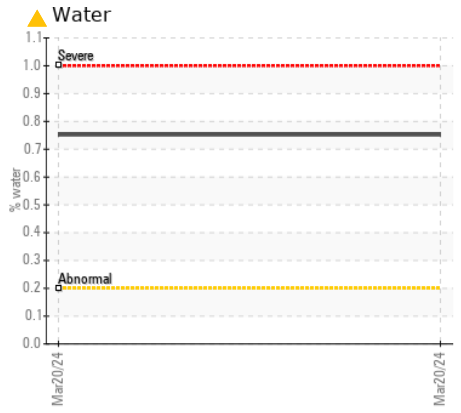
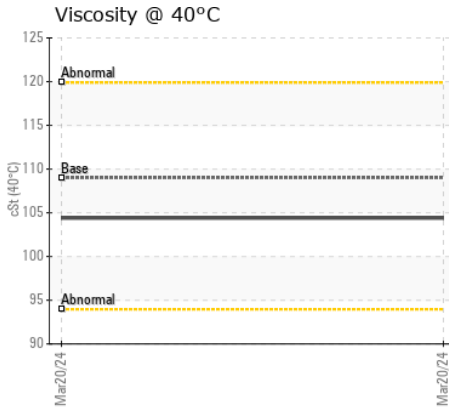
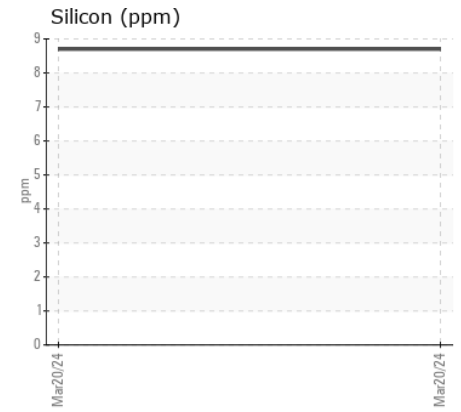
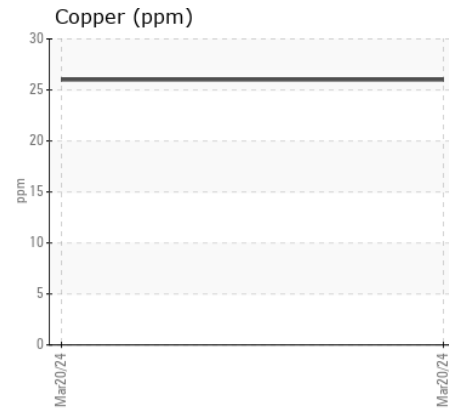
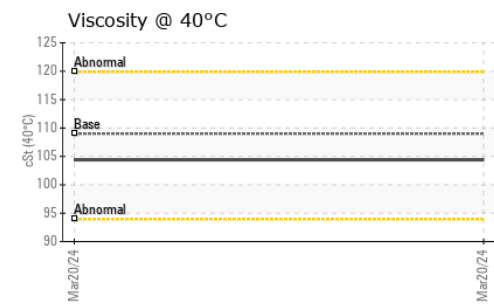
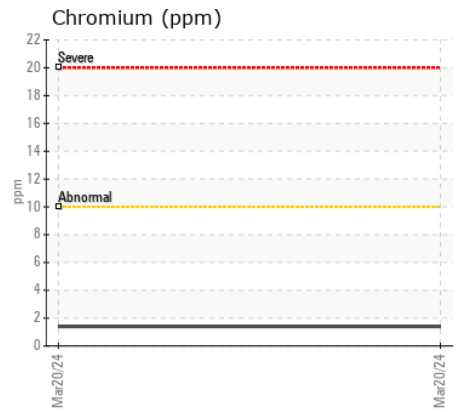
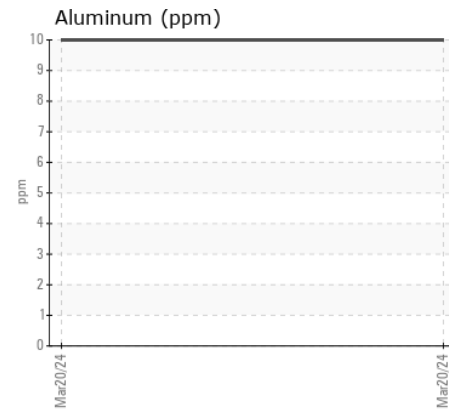
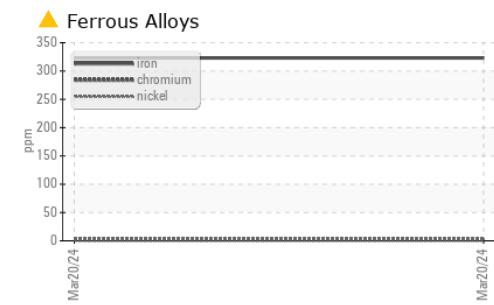
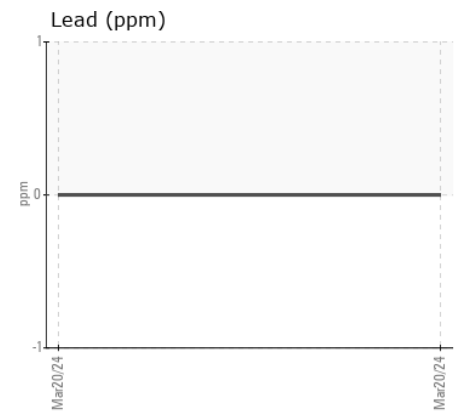
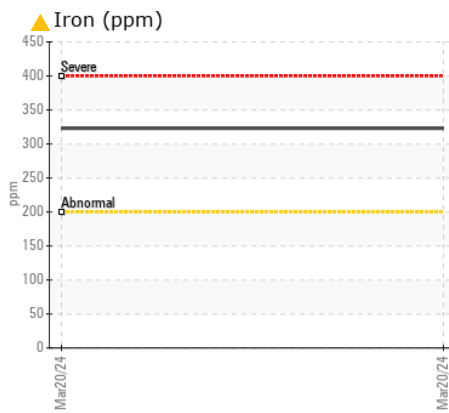
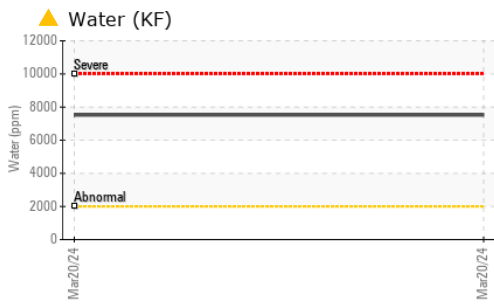
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA050982	---	---
Sample Date		Client Info		20 Mar 2024	---	---
Machine Age	hrs	Client Info		177	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
PQ		ASTM D8184		20	---	---
Iron	ppm	ASTM D5185m	>200	▲ 323	---	---
Chromium	ppm	ASTM D5185m	>10	1	---	---
Nickel	ppm	ASTM D5185m	>10	3	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m		10	---	---
Lead	ppm	ASTM D5185m		0	---	---
Copper	ppm	ASTM D5185m		26	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m		9	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Water	%	ASTM D6304	>0.2	▲ 0.752	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 7520	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	● HAZY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---
Sodium	ppm	ASTM D5185m		75	---	---
Boron	ppm	ASTM D5185m	400	332	---	---
Barium	ppm	ASTM D5185m	200	0	---	---
Molybdenum	ppm	ASTM D5185m	12	0	---	---
Manganese	ppm	ASTM D5185m		5	---	---
Magnesium	ppm	ASTM D5185m	12	11	---	---
Calcium	ppm	ASTM D5185m	150	6	---	---
Phosphorus	ppm	ASTM D5185m	1650	1407	---	---
Zinc	ppm	ASTM D5185m	125	37	---	---
Sulfur	ppm	ASTM D5185m	22500	26833	---	---
Visc @ 40°C	cSt	ASTM D445	109	104.4	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA050982 **Received** : 21 Mar 2024
Lab Number : 06125340 **Tested** : 21 Mar 2024
Unique Number : 10939491 **Diagnosed** : 21 Mar 2024 - Doug Bogart
Test Package : MOB 1 (Additional Tests: KF, PQ)

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 info@suncoastdmi.com
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Certificate L2367
 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)