



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
STAN DEAL [SR00100761]
 Machine Id
VOLVO PENTA 3940015182
 Component
Starboard IPS
 Fluid
VOLVO API GL-5 SAE 75W90 (4 GAL)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

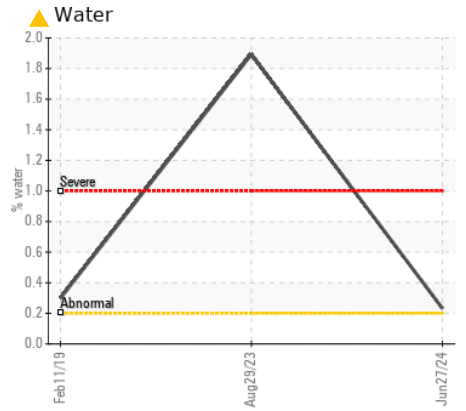
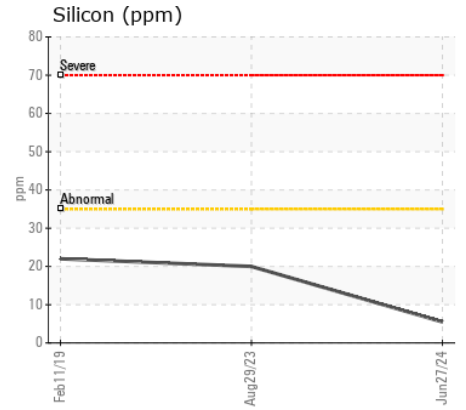
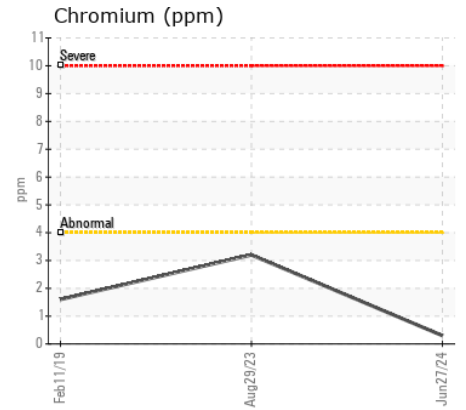
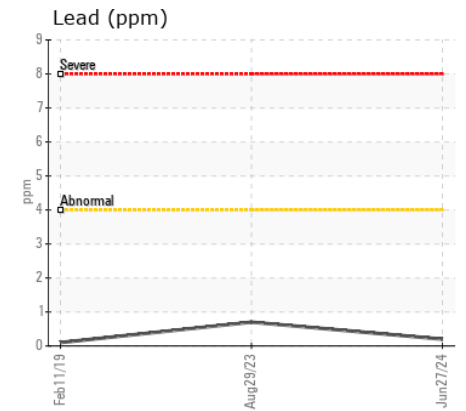
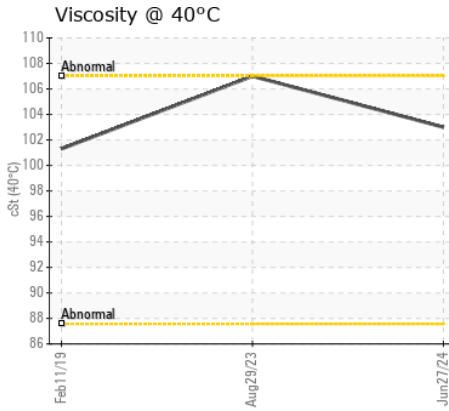
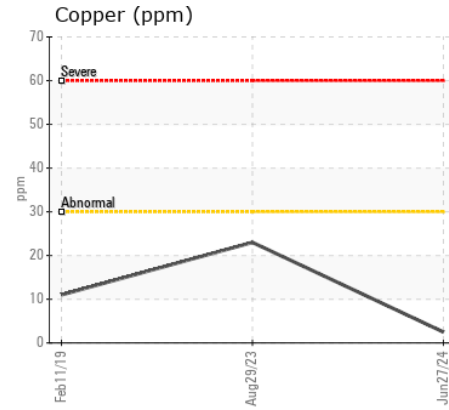
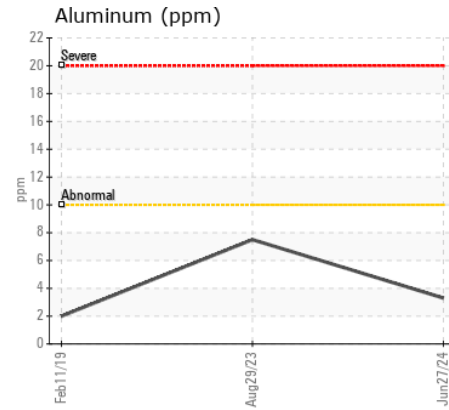
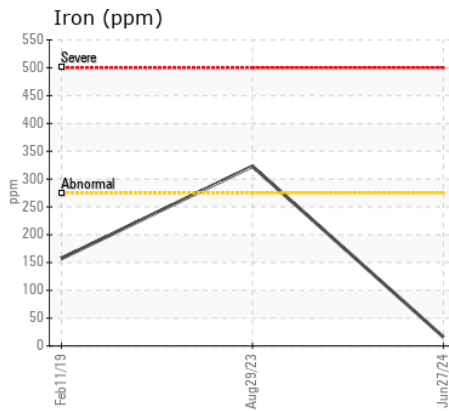
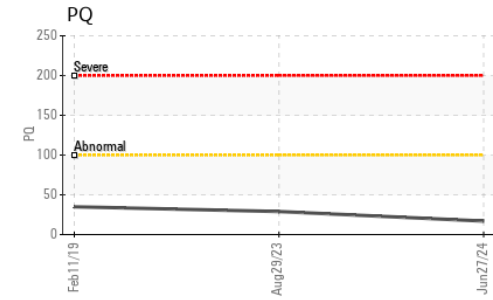
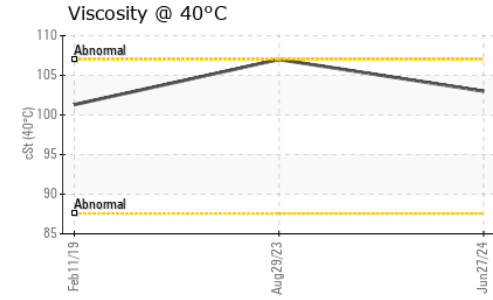
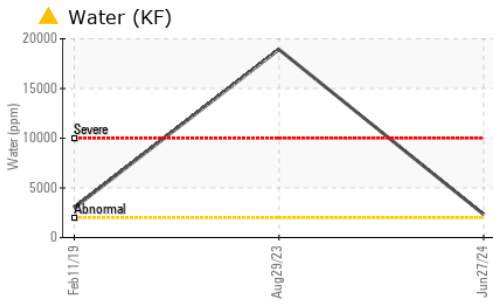
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA058802	VPA046949	VPA010438
Sample Date		Client Info		27 Jun 2024	29 Aug 2023	11 Feb 2019
Machine Age	hrs	Client Info		0	912	333
Oil Age	hrs	Client Info		0	439	60
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	SEVERE	ATTENTION

PQ		ASTM D8184		17	29	35
Iron	ppm	ASTM D5185m	>275	16	▲ 323	157
Chromium	ppm	ASTM D5185m	>4	<1	3	2
Nickel	ppm	ASTM D5185m	>4	<1	4	2
Titanium	ppm	ASTM D5185m	>3	<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	8	2
Lead	ppm	ASTM D5185m	>4	<1	<1	<1
Copper	ppm	ASTM D5185m	>30	2	23	11
Tin	ppm	ASTM D5185m	>3	<1	2	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>35	6	20	22
Potassium	ppm	ASTM D5185m	>20	2	8	<1
Water	%	ASTM D6304	>0.2	▲ 0.233	▲ 1.893	● 0.299
ppm Water	ppm	ASTM D6304	>2000	▲ 2330	▲ 18930	● 2990
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	▲ 0.2%	0.2%

Sodium	ppm	ASTM D5185m		0	▲ 160	10
Boron	ppm	ASTM D5185m		309	419	268
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	<1
Manganese	ppm	ASTM D5185m		<1	6	3
Magnesium	ppm	ASTM D5185m		2	43	38
Calcium	ppm	ASTM D5185m		15	34	14
Phosphorus	ppm	ASTM D5185m		1397	1343	1222
Zinc	ppm	ASTM D5185m		24	39	10
Sulfur	ppm	ASTM D5185m		22238	25056	26885
Visc @ 40°C	cSt	ASTM D445		103	107	101.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA058802 **Received** : 01 Jul 2024
Lab Number : 06224838 **Tested** : 02 Jul 2024
Unique Number : 11103035 **Diagnosed** : 03 Jul 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: KF, PQ)

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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)