



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE

SEVERE

ATTENTION

Area

[SWO-069177]

Machine Id

TAKEUCHI TL6 406001662

Component

Rear Right Final Drive

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP444470	VCP380772	VCP372960
Sample Date		Client Info		20 Feb 2024	10 Jan 2023	10 Jul 2022
Machine Age	hrs	Client Info		3140	3027	2241
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

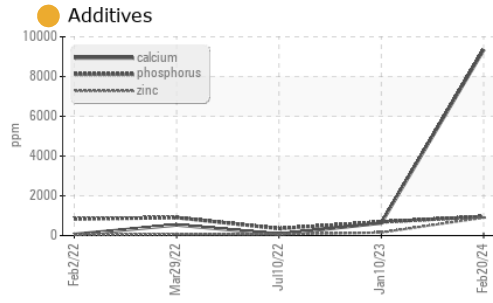
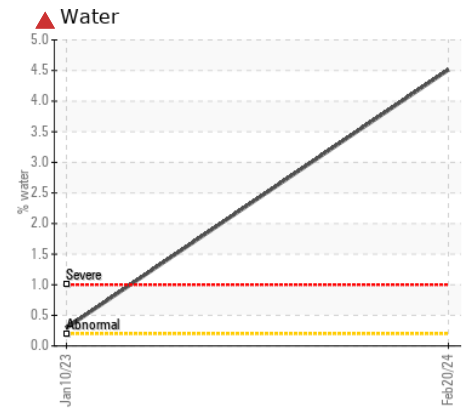
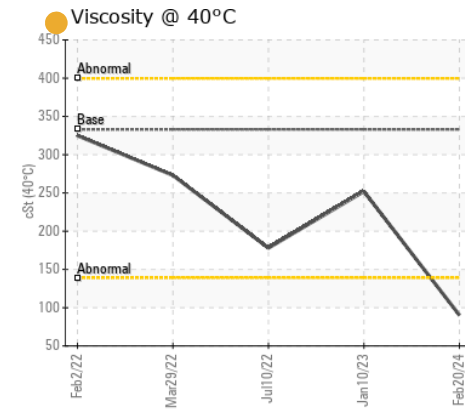
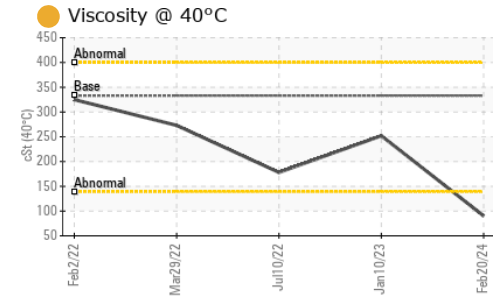
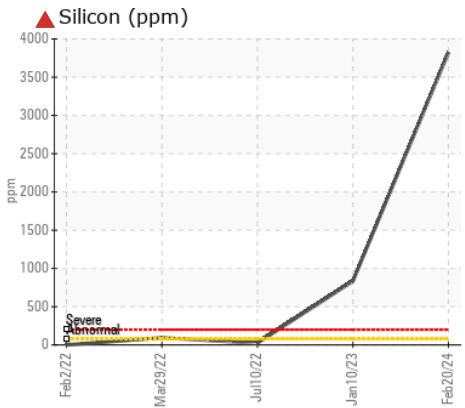
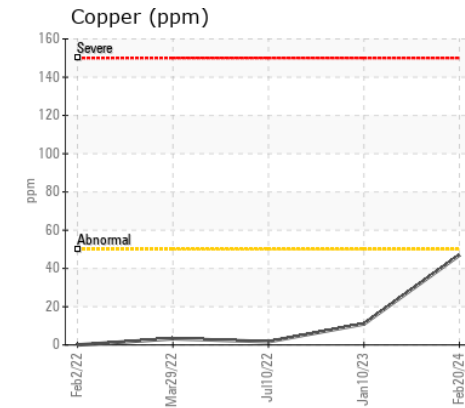
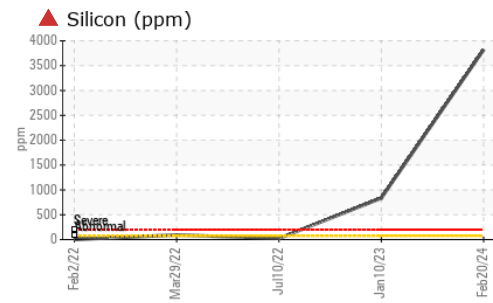
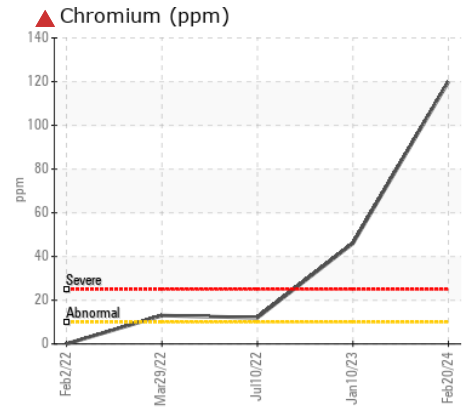
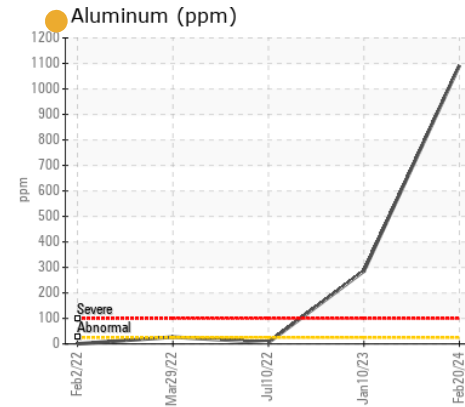
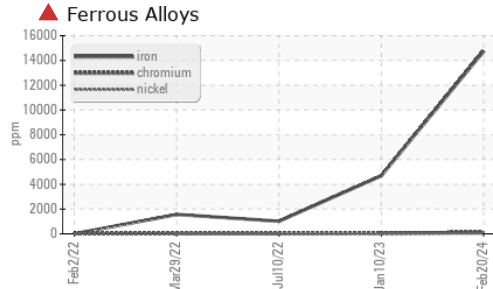
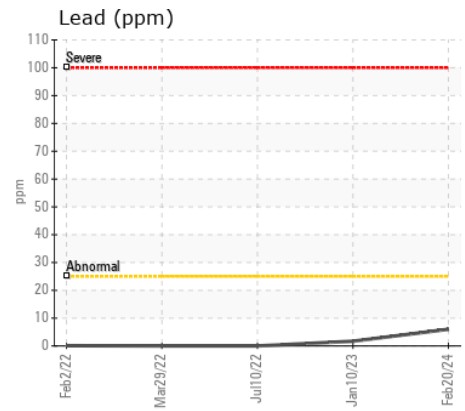
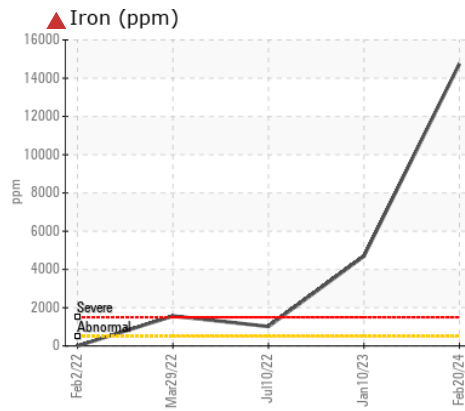
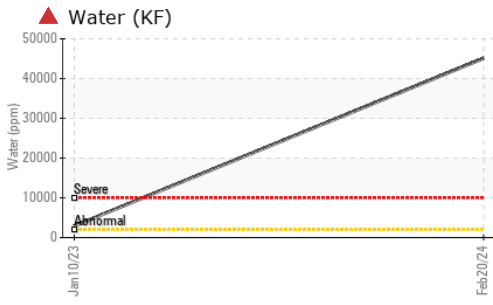
Iron	ppm	ASTM D5185m	>500	▲ 14743	▲ 4691	▲ 1017
Chromium	ppm	ASTM D5185m	>10	▲ 120	▲ 46	▲ 12
Nickel	ppm	ASTM D5185m	>10	▲ 22	▲ 14	1
Titanium	ppm	ASTM D5185m		▲ 66	17	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 1092	● 286	6
Lead	ppm	ASTM D5185m	>25	6	2	0
Copper	ppm	ASTM D5185m	>50	47	11	2
Tin	ppm	ASTM D5185m	>10	9	2	<1
Vanadium	ppm	ASTM D5185m		2	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Silicon	ppm	ASTM D5185m	>75	▲ 3821	▲ 834	23
Potassium	ppm	ASTM D5185m	>20	566	135	2
Water	%	ASTM D6304	>0.2	▲ 4.51	▲ 0.292	---
ppm Water	ppm	ASTM D6304	>2000	▲ 45100	▲ 2920	---
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	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	0.2%	NEG

FLUID CONDITION

Sodium	ppm	ASTM D5185m		79	27	3
Boron	ppm	ASTM D5185m	111	● 47	86	22
Barium	ppm	ASTM D5185m	0.0	11	0	2
Molybdenum	ppm	ASTM D5185m	0.9	● 58	11	3
Manganese	ppm	ASTM D5185m	0.0	● 118	37	10
Magnesium	ppm	ASTM D5185m	39	● 2839	68	27
Calcium	ppm	ASTM D5185m	93	● 9342	633	73
Phosphorus	ppm	ASTM D5185m	920	953	685	353
Zinc	ppm	ASTM D5185m	104	● 898	153	61
Sulfur	ppm	ASTM D5185m	20179	● 4001	25056	20624
Visc @ 40°C	cSt	ASTM D445	333	● 90.3	252	178



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP444470

Lab Number : 06102032

Unique Number : 10900262

Test Package : MOB 1 (Additional Tests: KF)

Received : 27 Feb 2024

Tested : 28 Feb 2024

Diagnosed : 29 Feb 2024 - Jonathan Hester

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)

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