WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE ABNORMAL

[SWO-069177]

TAKEUCHI TL6 406001662

Component Rear Left Final Drive

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

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas w	rce of water entry. The oil change	Sample Number		Client Info		VCP444471	VCP380773	VCP372892
We advise that you check for the sou		Sample Date		Client Info		20 Feb 2024	10 Jan 2023	10 Jul 2022
at the time of sampling has been note		Machine Age	hrs	Client Info		3140	3027	2241
this condition.		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 Changd	Not Changd	Not Changd
		Sample Status				SEVERE	ATTENTION	ABNORMAL
WEAR		Iron	ppm	ASTM D5185m	>500	4 9424	353	<u> </u>
Gear wear is indicated.		Chromium	ppm	ASTM D5185m	>10	4 97	4	<u> </u>
		Nickel	ppm	ASTM D5185m	>10	16	<1	2
		Titanium	ppm	ASTM D5185m		37	<1	2
		Silver	ppm	ASTM D5185m		0	0	0
		Aluminum	ppm	ASTM D5185m	>25	582	2	3 9
		Lead	ppm	ASTM D5185m	>25	2	0	<1
		Copper	ppm	ASTM D5185m	>50	21	<1	6
		Tin	ppm	ASTM D5185m	>10	2	<1	<1
		Vanadium	ppm	ASTM D5185m		1	0	0
		White Metal	scalar	*Visual	NONE	MODER	MODER	MODER
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION		Silicon	ppm	ASTM D5185m	>75	▲ 2044	14	<u> </u>
Elemental levels of silicon (Si) and all silicate (coarse dirt) ingress. There is water present in the oil.	` '	Potassium	ppm	ASTM D5185m	>20	288	0	15
		Water	%	ASTM D6304	>0.2	△ 0.409		
		ppm Water	ppm	ASTM D6304	>2000	4090		
		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%	NEG	NEG
FLUID CONDITION		Sodium	ppm	ASTM D5185m		48	3	2
The oil viscosity is higher than norma due to the presence of contaminants.		Boron	ppm	ASTM D5185m	111	120	4	71
		Barium	ppm	ASTM D5185m	0.0	7	0	0
							and the second s	

Molybdenum

Manganese

Magnesium

Phosphorus

Visc @ 40°C

Calcium

Zinc

Sulfur

ppm

ppm

ppm

ppm

ppm

ppm

ppm

cSt

14

82

1133

4943

812

98

48803

5228

<1

4

2

18

243

21916

0

157

ASTM D5185m 0.9

ASTM D5185m 0.0

ASTM D5185m 39

ASTM D5185m 920

ASTM D5185m 20179

ASTM D445 333

93

104

ASTM D5185m

ASTM D5185m

8

101

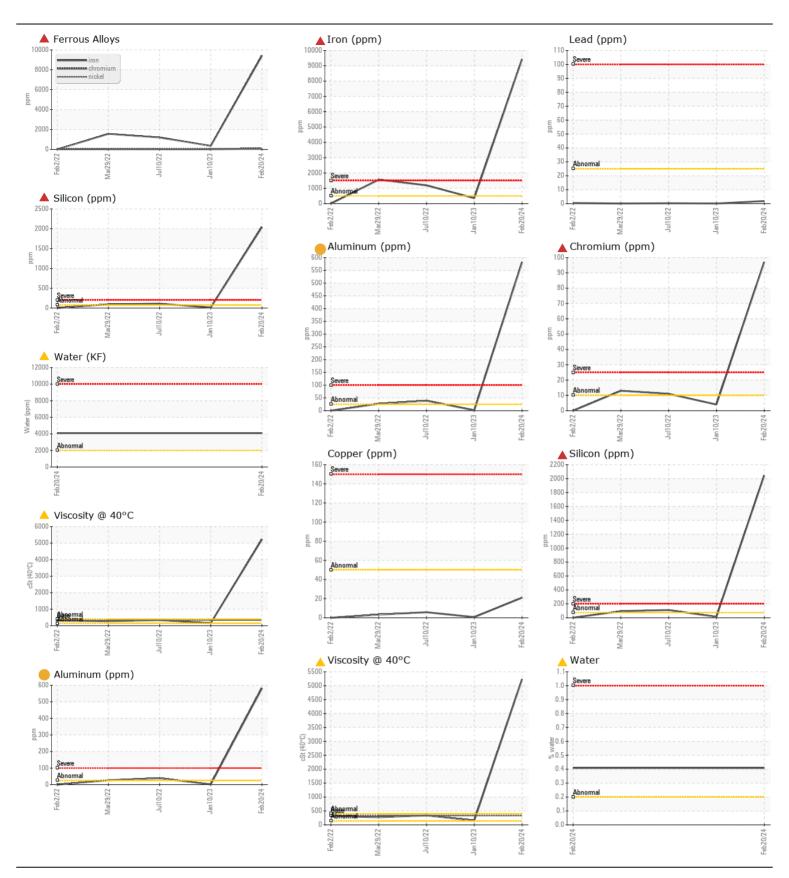
517

504

22

338

20113





Laboratory Sample No.

Lab Number : 06102054

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP444471

Received **Tested** Unique Number : 10900284

Diagnosed Test Package : MOB 1 (Additional Tests: KF)

: 27 Feb 2024 : 28 Feb 2024

: 29 Feb 2024 - Jonathan Hester

WHITAKER CONTRACTING 692 CONVICT CAMP RD GUNTERSVILLE, AL US 35976

Contact: BROTHER WHITAKER BrotherWhitaker@whitaker-contracting.com T: (256)298-3905

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

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

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

Report Id: WHIGUN [WUSCAR] 06102054 (Generated: 02/29/2024 15:00:04) Rev: 1