MOB II

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[674503]
Machine Id
VOLVO L110G 8200
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

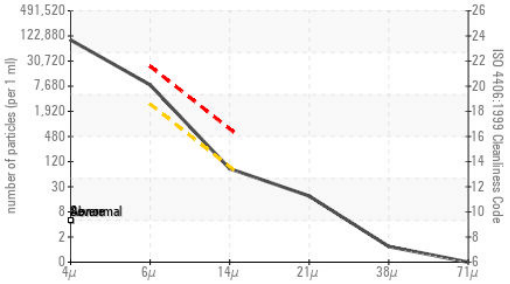
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

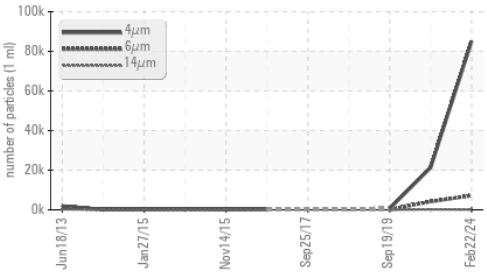
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**VCP440892**	VCP388731	VCP246966
Sample Date		Client Info		**22 Feb 2024**	02 Sep 2022	19 Sep 2019
Machine Age	hrs	Client Info		**17946**	15914	12017
Oil Age	hrs	Client Info		**0**	4000	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	**2**	4	9
Chromium	ppm	ASTM D5185m	>20	**0**	0	<1
Nickel	ppm	ASTM D5185m	>10	**<1**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**1**	2	2
Lead	ppm	ASTM D5185m	>20	**<1**	0	1
Copper	ppm	ASTM D5185m	>150	**2**	2	4
Tin	ppm	ASTM D5185m	>20	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	**5**	8	24
Potassium	ppm	ASTM D5185m	>20	**1**	0	<1
Water		WC Method	>0.1	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647		**84918**	21289	632
Particles >6µm		ASTM D7647	>2500	▲ **7200**	● 4170	86
Particles >14µm		ASTM D7647	>80	**72**	▲ 215	9
Particles >21µm		ASTM D7647	>20	**16**	● 32	2
Particles >38µm		ASTM D7647	>4	**1**	2	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/18/13	▲ **24/20/13**	▲ 22/19/15	16/14/10
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	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**3**	3	2
Boron	ppm	ASTM D5185m	14	**0**	<1	4
Barium	ppm	ASTM D5185m	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0.0	**0**	<1	0
Manganese	ppm	ASTM D5185m	0.0	**<1**	0	<1
Magnesium	ppm	ASTM D5185m	2.6	**4**	2	7
Calcium	ppm	ASTM D5185m	49	**36**	75	124
Phosphorus	ppm	ASTM D5185m	354	**353**	334	344
Zinc	ppm	ASTM D5185m	419	**457**	420	457
Sulfur	ppm	ASTM D5185m	3719	**1289**	2166	1192
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.80**	0.38	0.411
Visc @ 40°C	cSt	ASTM D445	46	**42.8**	41.5	40.7

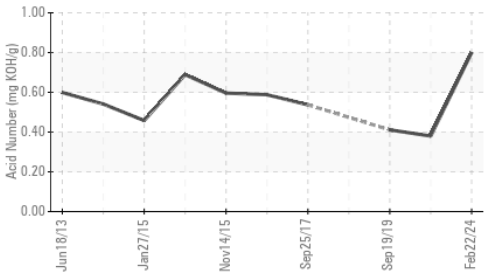
Particle Count



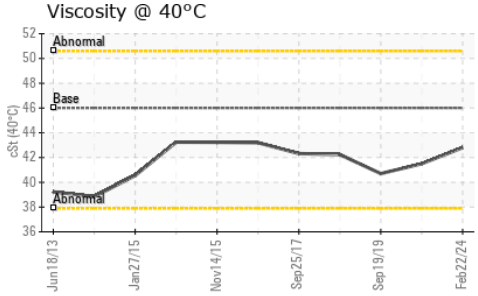
Particle Trend



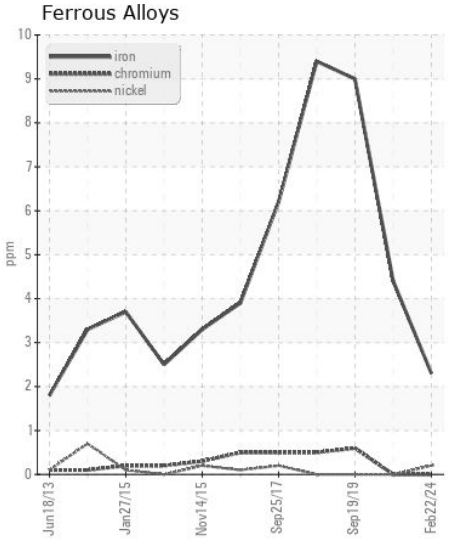
Acid Number



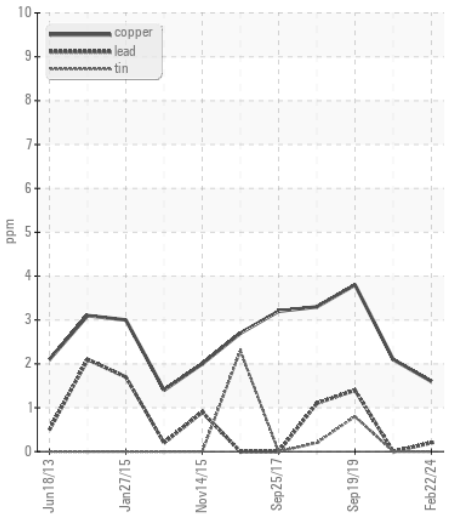
Viscosity @ 40°C



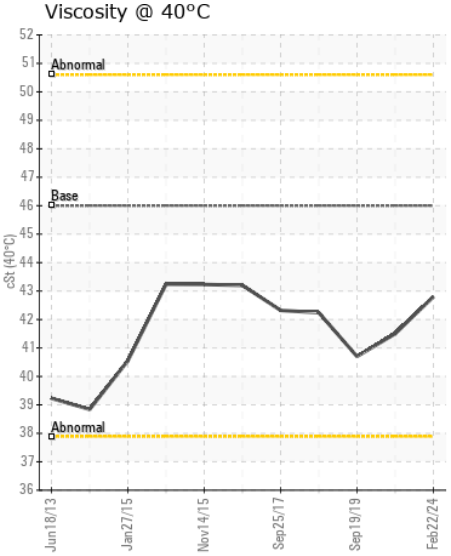
Ferrous Alloys



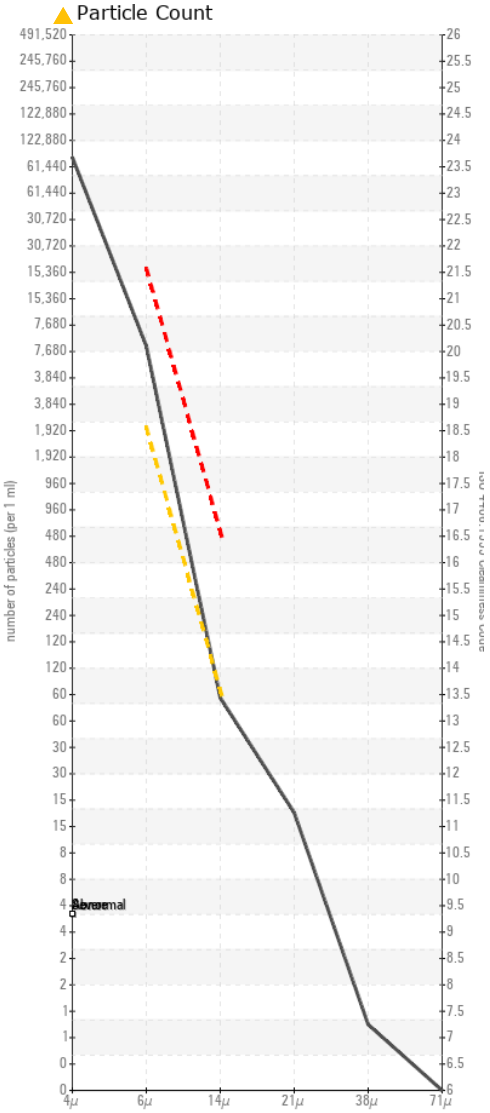
Non-ferrous Metals



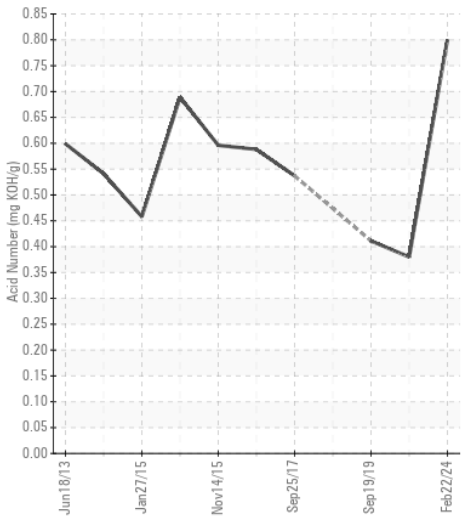
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP440892
Lab Number : 06102910
Unique Number : 10901140
Test Package : MOB 2

Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Wes Davis

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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