MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[394172]
Machine Id
16-8006
Component
Front Axle
Fluid
VOLVO WB 102 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil 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

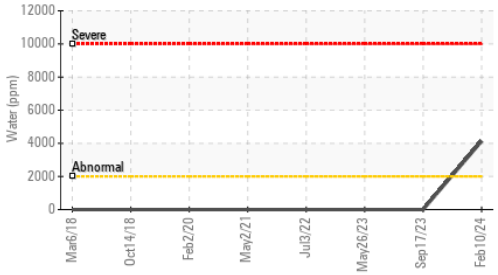
There is a moderate concentration of water present in the oil.

FLUID CONDITION

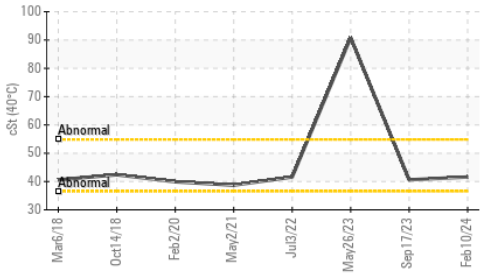
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP382302	VCP382711	VCP394623
Sample Date		Client Info		10 Feb 2024	17 Sep 2023	26 May 2023
Machine Age	hrs	Client Info		12000	11000	10000
Oil Age	hrs	Client Info		2000	1000	2000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>500	71	16	34
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	3	2	2
Lead	ppm	ASTM D5185(m)	>50	<1	<1	0
Copper	ppm	ASTM D5185(m)	>120	1	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>50	26	19	17
Potassium	ppm	ASTM D5185(m)	>20	2	2	2
Water	%	ASTM D6304*	>0.2	▲ 0.413	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 4131	---	---
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	▲ .5%	NEG	NEG
Sodium	ppm	ASTM D5185(m)		3	1	2
Boron	ppm	ASTM D5185(m)		111	116	123
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	<1	<1
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		18	17	19
Calcium	ppm	ASTM D5185(m)		4088	4190	4462
Phosphorus	ppm	ASTM D5185(m)		1336	1367	1410
Zinc	ppm	ASTM D5185(m)		1572	1626	1668
Sulfur	ppm	ASTM D5185(m)		3607	3446	3269
Visc @ 40°C	cSt	ASTM D7279(m)		41.6	40.6	90.8

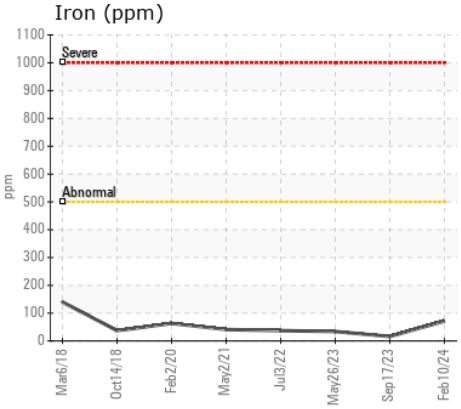
Water (KF)



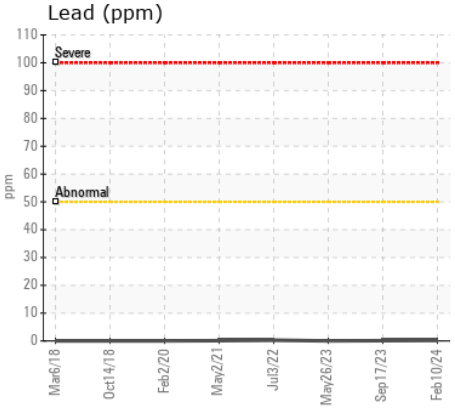
Viscosity @ 40°C



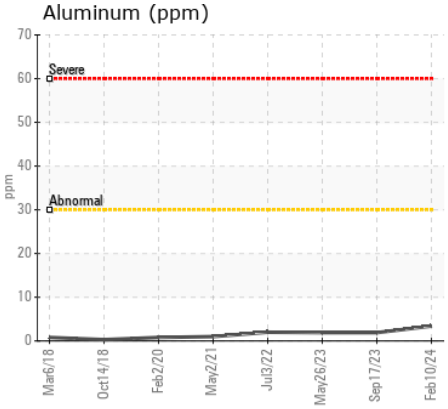
Iron (ppm)



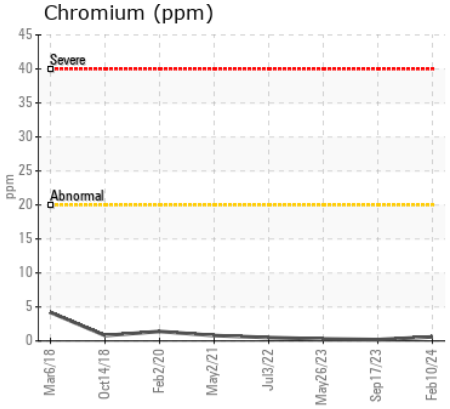
Lead (ppm)



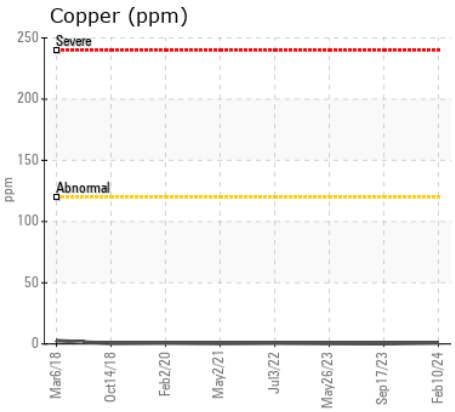
Aluminum (ppm)



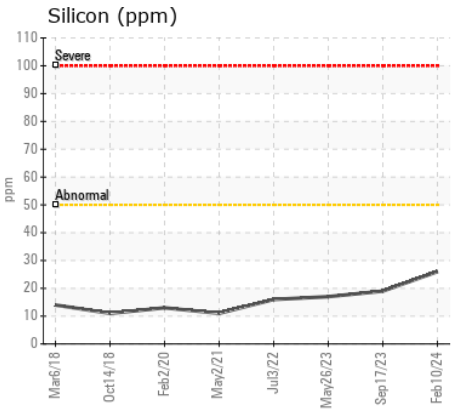
Chromium (ppm)



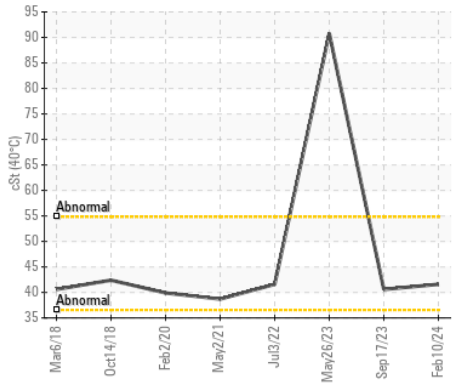
Copper (ppm)



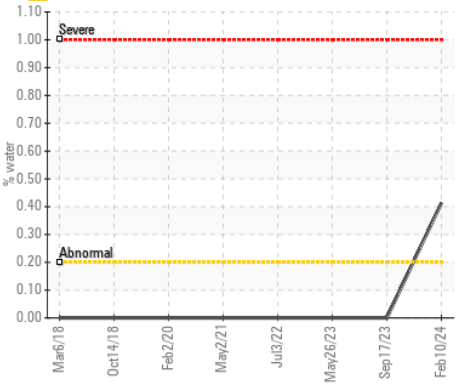
Silicon (ppm)



Viscosity @ 40°C



Water



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP382302 **Received** : 15 Feb 2024
Lab Number : 02616067 **Tested** : 20 Feb 2024
Unique Number : 5733177 **Diagnosed** : 20 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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