MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[SWO-071569]
Machine Id
VOLVO A45G 353092
Component
Drop Box
Fluid
{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

CONTAMINATION

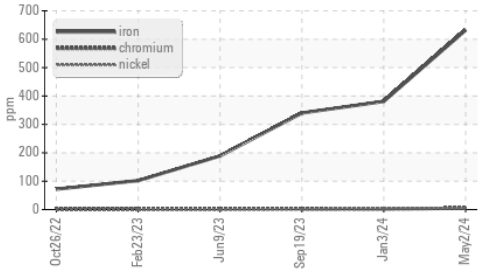
Elemental level of silicon (Si) above normal indicating ingress of seal material.

FLUID CONDITION

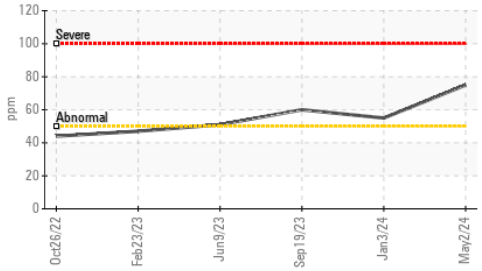
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP453710	VCP443366	VCP431089
Sample Date		Client Info		02 May 2024	03 Jan 2024	19 Sep 2023
Machine Age	hrs	Client Info		3022	2545	2012
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500	▲ 632	381	340
Chromium	ppm	ASTM D5185m	>20	5	2	2
Nickel	ppm	ASTM D5185m	>10	4	2	2
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	5	2	1
Lead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m	>30	19	21	20
Tin	ppm	ASTM D5185m	>20	0	0	0
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	>50	▲ 75	▲ 55	▲ 60
Potassium	ppm	ASTM D5185m	>20	4	4	3
Water		WC Method	>0.2	NEG	NEG	NEG
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	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		7	<1	8
Boron	ppm	ASTM D5185m		116	130	150
Barium	ppm	ASTM D5185m		<1	8	0
Molybdenum	ppm	ASTM D5185m		11	8	7
Manganese	ppm	ASTM D5185m		9	8	8
Magnesium	ppm	ASTM D5185m		4	3	3
Calcium	ppm	ASTM D5185m		34	26	30
Phosphorus	ppm	ASTM D5185m		2244	1997	2511
Zinc	ppm	ASTM D5185m		129	108	138
Sulfur	ppm	ASTM D5185m		29652	27428	33536
Visc @ 40°C	cSt	ASTM D445		45.5	46.4	45.5

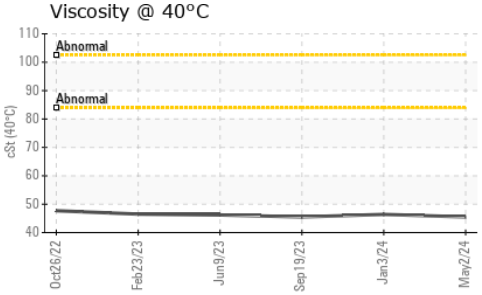
Ferrous Alloys



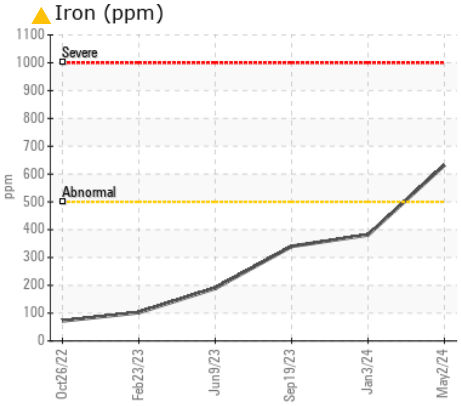
Silicon (ppm)



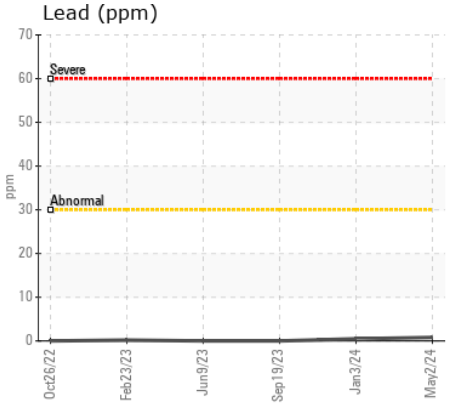
Viscosity @ 40°C



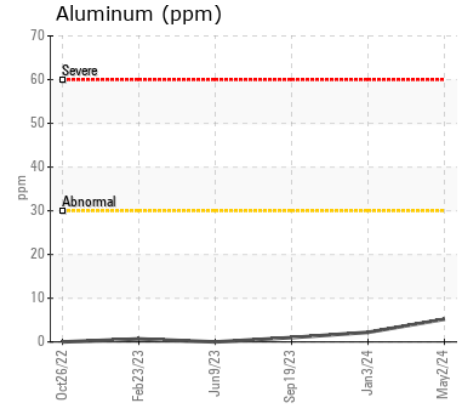
Iron (ppm)



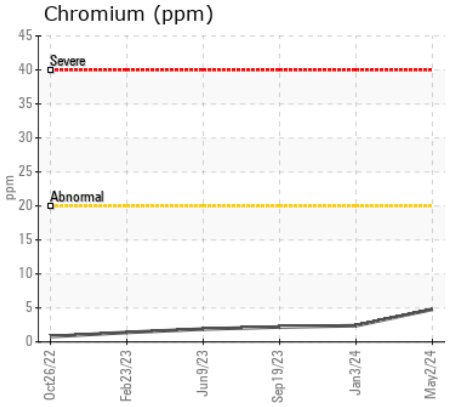
Lead (ppm)



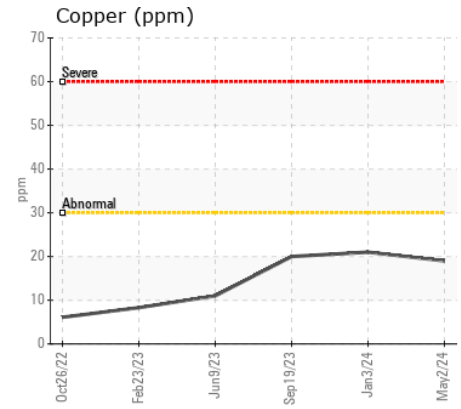
Aluminum (ppm)



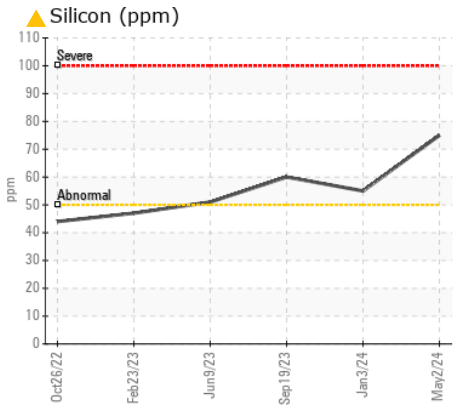
Chromium (ppm)



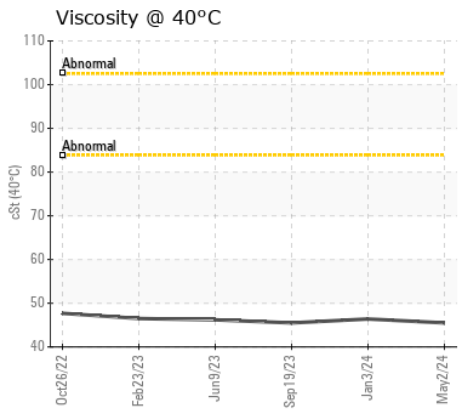
Copper (ppm)



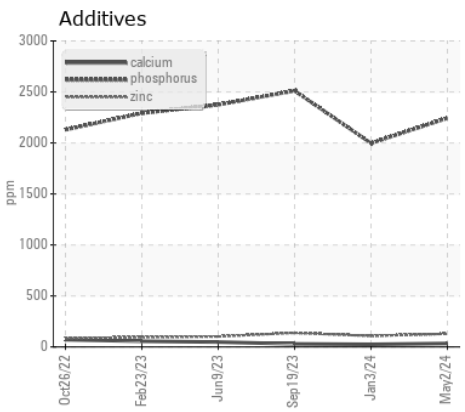
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP453710
Lab Number : 06174247
Unique Number : 11020300
Test Package : MOB 1

Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 13 May 2024 - Angela Borella

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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