



OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W02008456]
Machine Id
VOLVO A25G 752845
Component
Diesel Engine
Fluid
MOBIL 15W40 (11 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W02008456)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002386	ML0000355	VCP420839
Sample Date		Client Info		19 Jun 2024	28 Mar 2024	31 Oct 2023
Machine Age	hrs	Client Info		1493	1016	538
Oil Age	hrs	Client Info		477	500	500
Filter Age	hrs	Client Info		477	500	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ATTENTION	ABNORMAL

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	8	9	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	1
Aluminum	ppm	ASTM D5185m	>30	2	4	2
Lead	ppm	ASTM D5185m	>40	0	<1	4
Copper	ppm	ASTM D5185m	>20	▲ 86	▲ 169	▲ 296
Tin	ppm	ASTM D5185m	>20	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

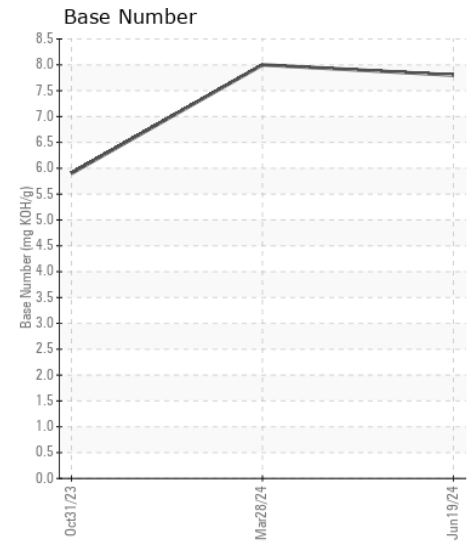
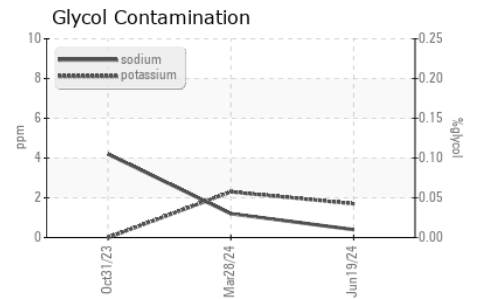
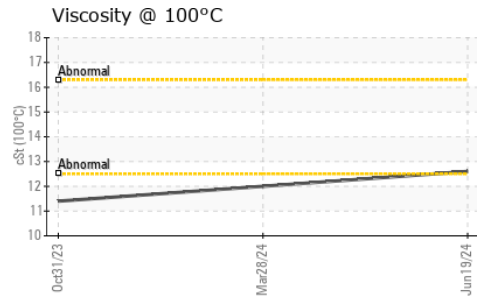
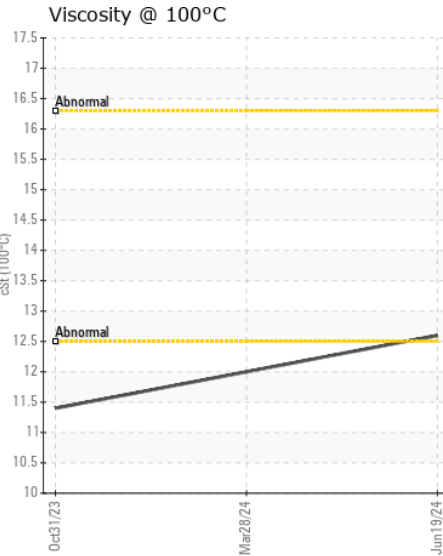
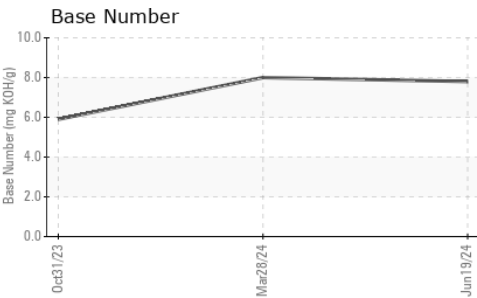
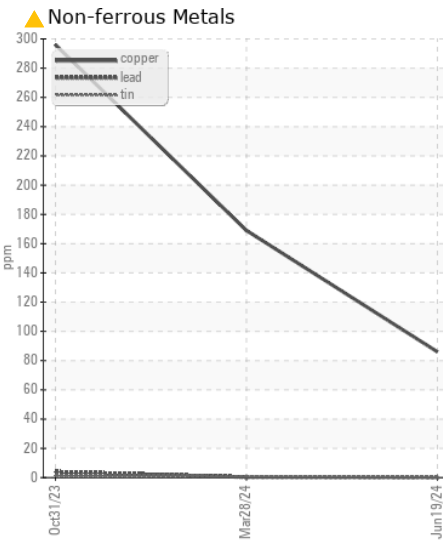
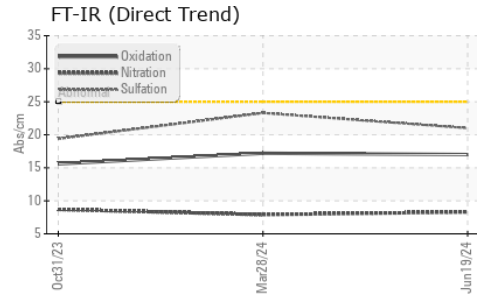
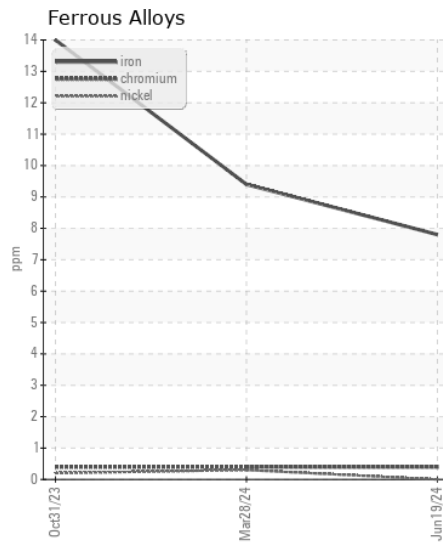
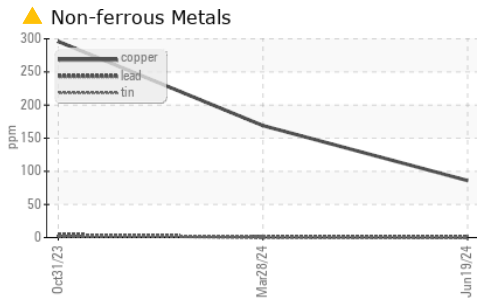
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	10	28
Potassium	ppm	ASTM D5185m	>20	2	2	0
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	23.3	19.4
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

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>118	<1	1	4
Boron	ppm	ASTM D5185m		59	306	87
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		63	128	79
Manganese	ppm	ASTM D5185m		<1	1	3
Magnesium	ppm	ASTM D5185m		548	562	127
Calcium	ppm	ASTM D5185m		1528	1653	1847
Phosphorus	ppm	ASTM D5185m		921	775	903
Zinc	ppm	ASTM D5185m		1154	917	1172
Sulfur	ppm	ASTM D5185m		2741	2615	3539
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.2	15.6
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	8.0	5.9
Visc @ 100°C	cSt	ASTM D445		12.6	● 12.0	● 11.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002386
Lab Number : 06216500
Unique Number : 11089364
Test Package : CONST (Additional Tests: Glycol, TBN)

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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)