



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
[W02008493]
Machine Id
VOLVO A25G 752020
Component
Diesel Engine
Fluid
MOBIL 15W40 (11 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W02008493)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002344	WC0867652	VCP386568
Sample Date		Client Info		01 Jul 2024	12 Oct 2023	29 Sep 2022
Machine Age	hrs	Client Info		3489	2982	2500
Oil Age	hrs	Client Info		507	500	500
Filter Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	9	10	8
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	4	4	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>20	0	1	2
Tin	ppm	ASTM D5185m	>20	<1	1	1
Vanadium	ppm	ASTM D5185m		0	0	0
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.

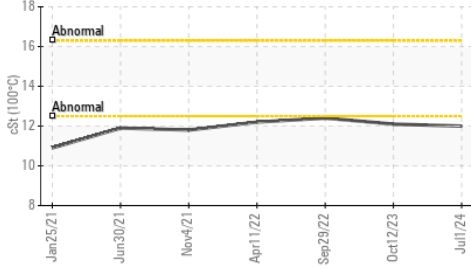
Silicon	ppm	ASTM D5185m	>20	5	5	3
Potassium	ppm	ASTM D5185m	>20	<1	3	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.8	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	21.0	20.2
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

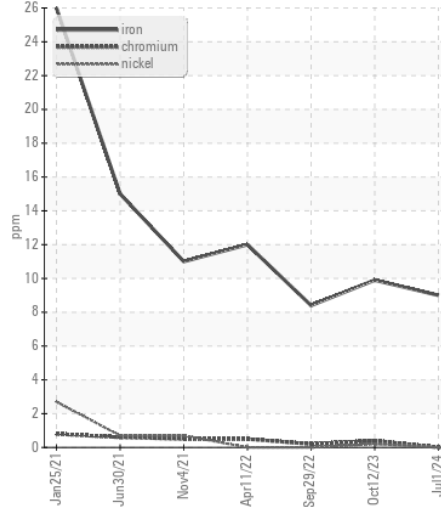
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>118	2	2	1
Boron	ppm	ASTM D5185m		184	225	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		86	92	57
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		626	629	817
Calcium	ppm	ASTM D5185m		1559	1263	1166
Phosphorus	ppm	ASTM D5185m		887	658	966
Zinc	ppm	ASTM D5185m		1008	835	1152
Sulfur	ppm	ASTM D5185m		3274	2252	3562
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	15.1	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	8.0	9.9
Visc @ 100°C	cSt	ASTM D445		12.0	12.1	12.4

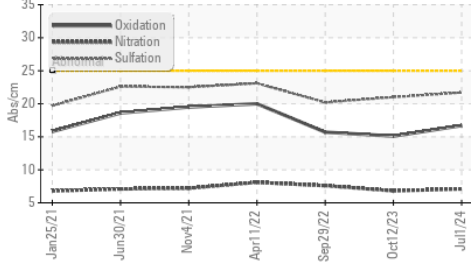
● Viscosity @ 100°C



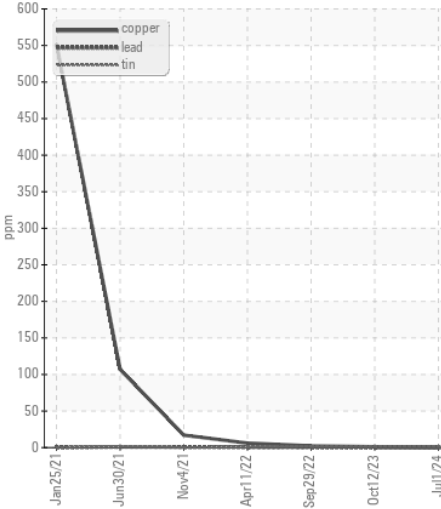
Ferrous Alloys



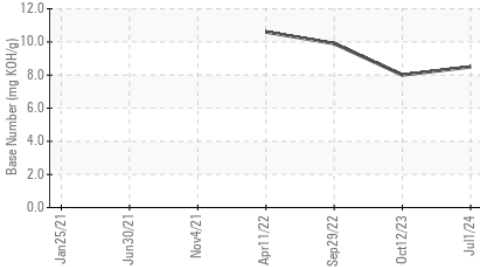
FT-IR (Direct Trend)



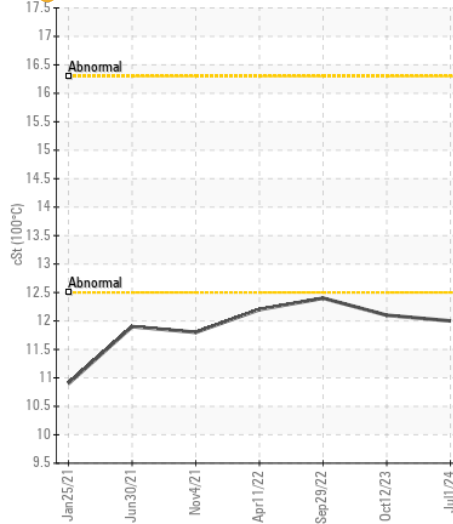
Non-ferrous Metals



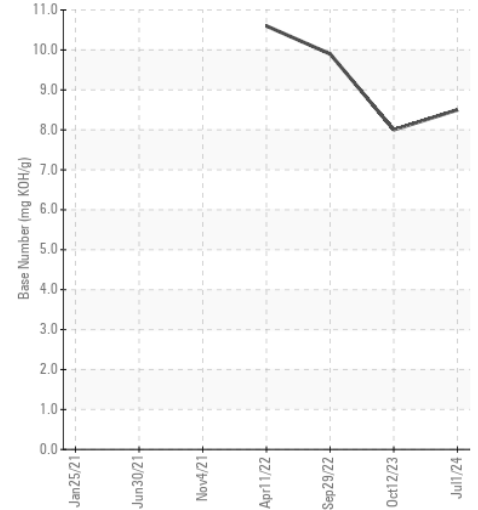
Base Number



● Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : ML0002344
 Lab Number : 06226875
 Unique Number : 11110368
 Test Package : CONST (Additional Tests: TBN)

Received : 02 Jul 2024
 Tested : 05 Jul 2024
 Diagnosed : 05 Jul 2024 - Jonathan Hester

CWS-STRITTMATTER
 9102 OWENS DR
 MANASSAS PARK, VA
 US 20111
 Contact: Service Manager

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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