



McCLUNG-LOGAN
EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR

NORMAL

CONTAMINATION

ABNORMAL

FLUID CONDITION

ABNORMAL



Area

[W/O 11034]

Machine Id

VOLVO A25G 742348

Component

Diesel Engine

Fluid

CHEVRON 15W40 (10 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002113	ML0000145	VCP413949
Sample Date		Client Info		27 Jun 2024	02 Feb 2024	08 Aug 2023
Machine Age	hrs	Client Info		3742	3379	3050
Oil Age	hrs	Client Info		363	329	0
Filter Age	hrs	Client Info		363	329	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	4	2	3
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	0	<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

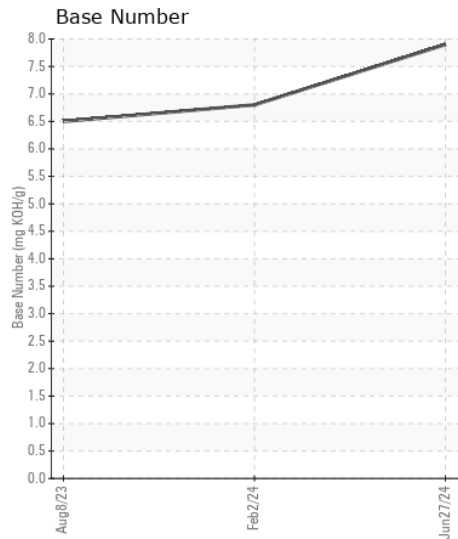
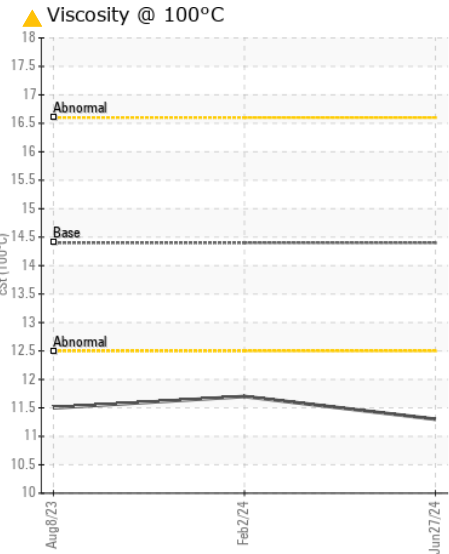
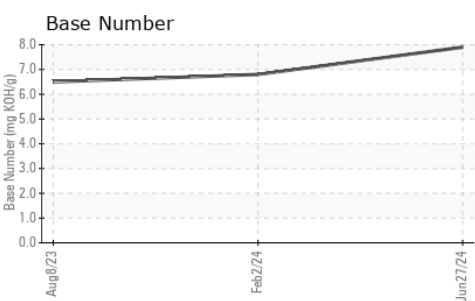
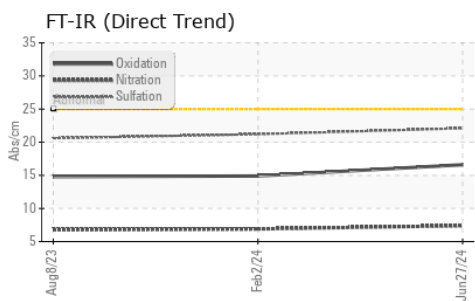
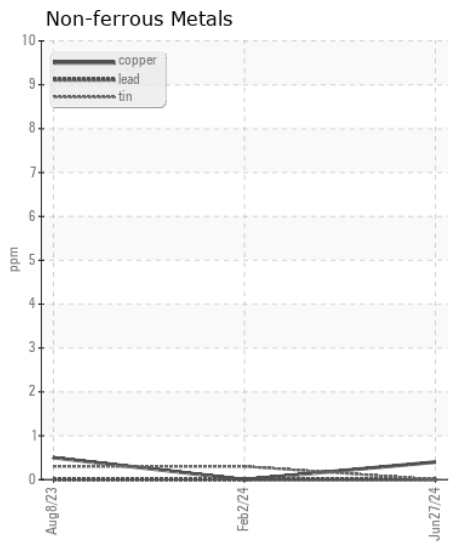
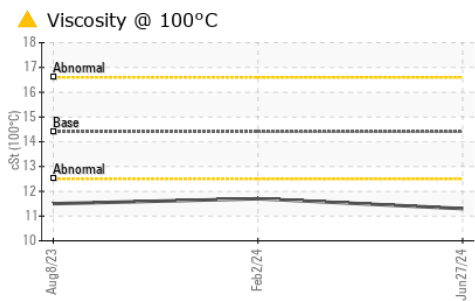
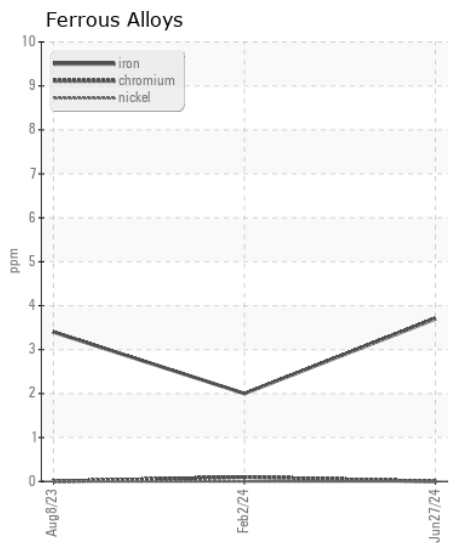
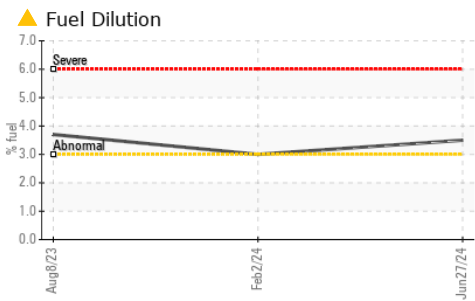
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	4	4
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Fuel	%	ASTM D3524	>3.0	▲ 3.5	▲ 3.0	▲ 3.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.9	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.2	20.6
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

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m	>50	3	<1	1
Boron	ppm	ASTM D5185m		241	403	409
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		94	82	91
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		518	387	413
Calcium	ppm	ASTM D5185m		1551	1238	1433
Phosphorus	ppm	ASTM D5185m		836	1054	1018
Zinc	ppm	ASTM D5185m		915	1217	1230
Sulfur	ppm	ASTM D5185m		2955	3185	▲ 3902
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	14.9	14.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	6.8	6.5
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.3	▲ 11.7	▲ 11.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002113 **Received** : 11 Jul 2024
Lab Number : 06234233 **Tested** : 16 Jul 2024
Unique Number : 11123067 **Diagnosed** : 16 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PercentFuel, TBN)

MCCLUNG-LOGAN EQUIPMENT CO - BALTIMORE
 4601 WASHINGTON BOULEVARD
 BALTIMORE, MD
 US 21227
 Contact: MARK CIULLA
 mciulla@mcclung-logan.com
 T: (410)242-6500
 F: (410)242-7835

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)