



McCLUNG-LOGAN
EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W02004119]
Machine Id
VOLVO A45G 342686
Component
Diesel Engine
Fluid
MOBIL 15W40 (15 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W02004119)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0000395	ML0886269	VCP189746
Sample Date		Client Info		19 Mar 2024	26 Jan 2024	11 Dec 2023
Machine Age	hrs	Client Info		7056	6852	6622
Oil Age	hrs	Client Info		500	250	250
Filter Age	hrs	Client Info		500	250	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	2	4	3
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	3
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	3	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

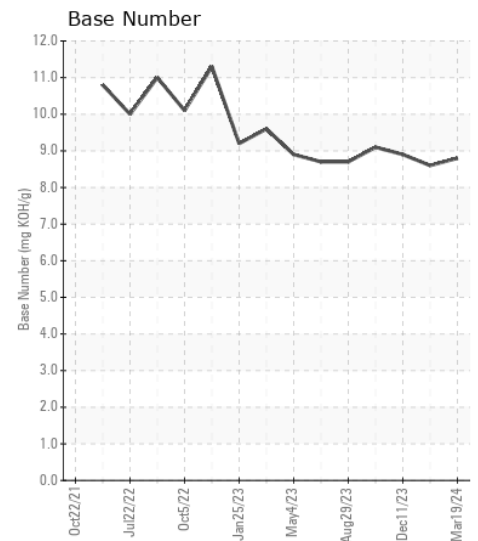
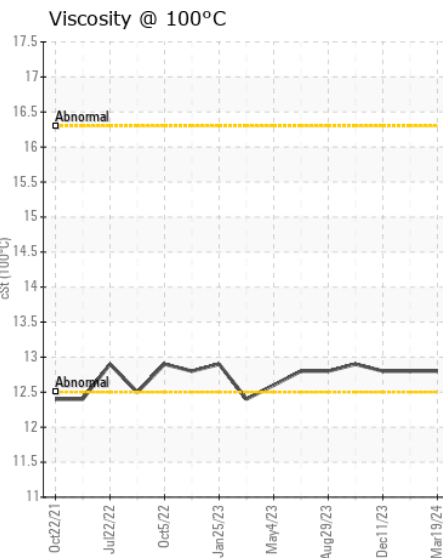
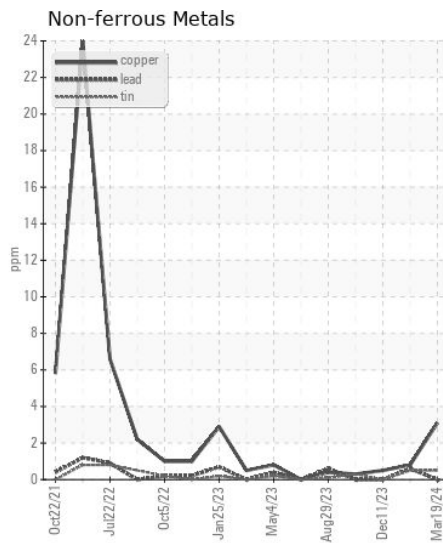
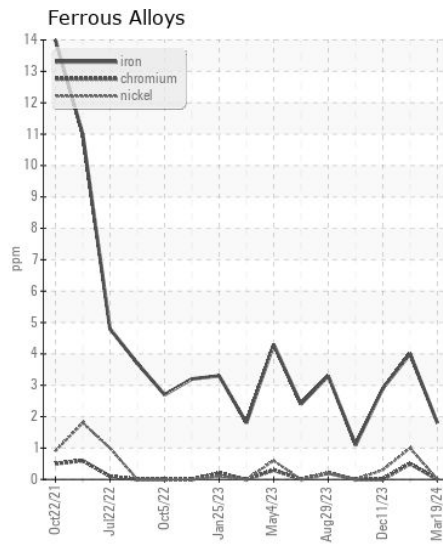
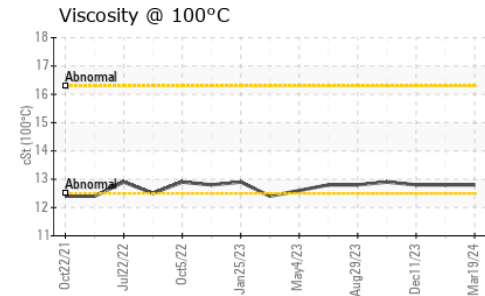
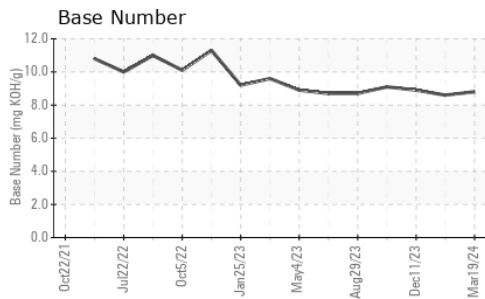
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	6	6
Potassium	ppm	ASTM D5185m	>20	0	1	0
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.5	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.3	22.5
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	0	<1
Boron	ppm	ASTM D5185m		325	319	318
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		121	122	116
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		625	663	584
Calcium	ppm	ASTM D5185m		1490	1362	1511
Phosphorus	ppm	ASTM D5185m		710	682	724
Zinc	ppm	ASTM D5185m		843	876	890
Sulfur	ppm	ASTM D5185m		2874	2422	2076
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	16.0	16.3
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	8.6	8.9
Visc @ 100°C	cSt	ASTM D445		12.8	12.8	12.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ML0000395

Lab Number : 06124195

Unique Number : 10938346

Test Package : CONST (Additional Tests: TBN)

Received : 20 Mar 2024

Tested : 21 Mar 2024

Diagnosed : 23 Mar 2024 - Don Baldrige

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS

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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)