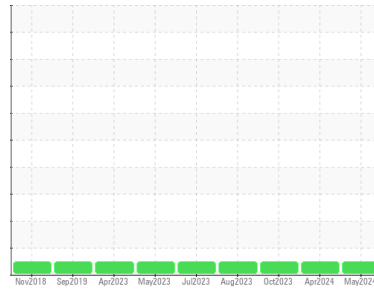




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[W/O 10764]
 Machine Id
VOLVO A40G 341170
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (15 GAL)



DIAGNOSIS

- Recommendation**
Resample at the next service interval to monitor.
- Wear**
All component wear rates are normal.
- Contamination**
There is no indication of any contamination in the oil.
- Fluid Condition**
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ML0001337	ML0000446	VCP419407
Sample Date	Client Info		07 May 2024	16 Apr 2024	26 Oct 2023
Machine Age	hrs	Client Info	11348	11296	10875
Oil Age	hrs	Client Info	52	250	250
Oil Changed	Client Info		Not Chngd	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	2	8	5
Chromium	ppm	ASTM D5185m >20	<1	1	<1
Nickel	ppm	ASTM D5185m >2	<1	2	<1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >2	0	<1	<1
Aluminum	ppm	ASTM D5185m >25	2	6	3
Lead	ppm	ASTM D5185m >40	<1	1	0
Copper	ppm	ASTM D5185m >330	<1	2	<1
Tin	ppm	ASTM D5185m >15	<1	1	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	92	495	437
Barium	ppm	ASTM D5185m	2	<1	4
Molybdenum	ppm	ASTM D5185m	75	167	135
Manganese	ppm	ASTM D5185m	<1	1	0
Magnesium	ppm	ASTM D5185m	679	832	654
Calcium	ppm	ASTM D5185m	1271	2028	1497
Phosphorus	ppm	ASTM D5185m	882	1054	741
Zinc	ppm	ASTM D5185m	1013	1131	841
Sulfur	ppm	ASTM D5185m	2864	3857	2490

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	10	6
Sodium	ppm	ASTM D5185m >118	0	1	0
Potassium	ppm	ASTM D5185m >20	2	2	1

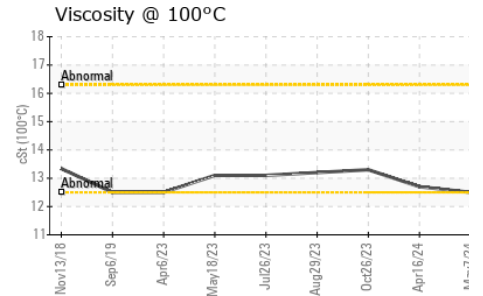
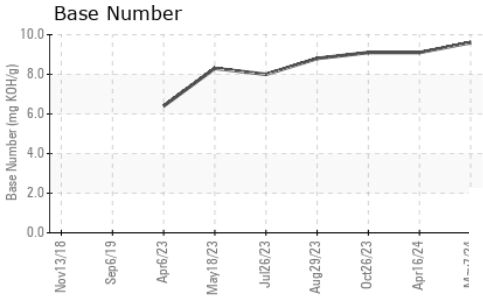
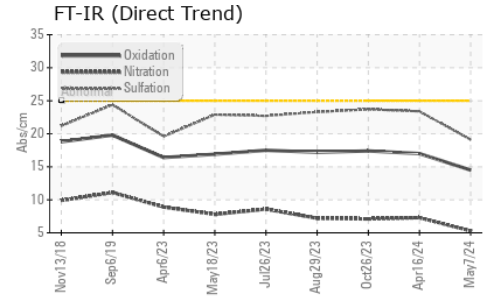
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	5.3	7.3	7.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.1	23.4	23.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.5	17.0	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	9.1	9.1

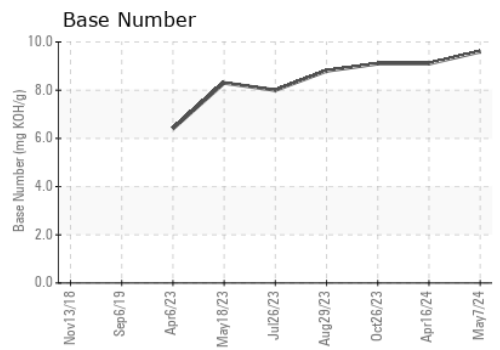
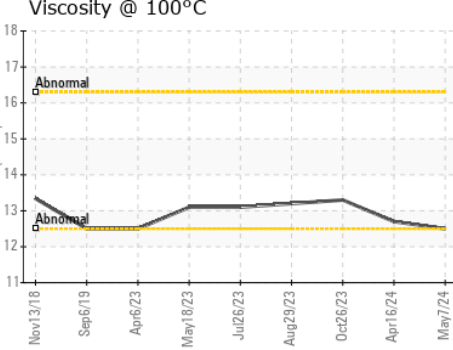
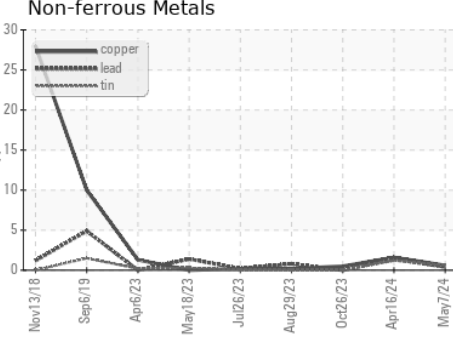
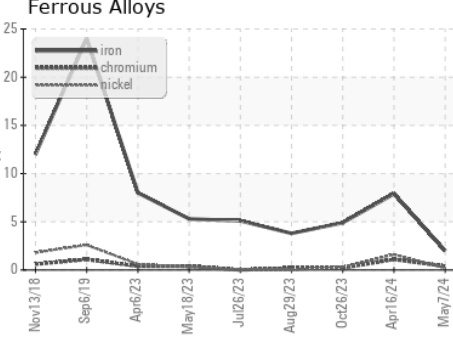
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.5	12.7	13.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001337 **Received** : 10 May 2024
Lab Number : 06176443 **Tested** : 13 May 2024
Unique Number : 11022496 **Diagnosed** : 14 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

McCLUNG-LOGAN EQUIPMENT CO - MANASSAS
 8450 QUARRY ROAD
 MANASSAS, VA
 US 20110
 Contact: MIKE MAYHUGH
 MMayhugh@McClung-Logan.com
 T: (703)393-7344
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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)