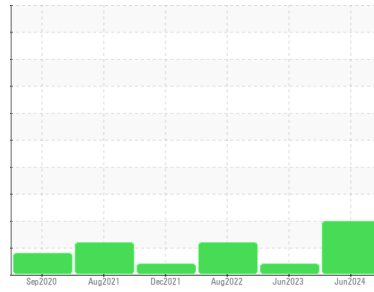


# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**[W02008442]**  
 Machine Id  
**VOLVO A25G 742297**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL 15W40 (11 GAL)**

## DIAGNOSIS

### ▲ 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: W02008442 )

### Wear

All component wear rates are normal.

### ▲ Contamination

Elemental level of silicon (Si) above normal.

### ● 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ML0001143</b>	VCP388661	VCP375115
Sample Date	Client Info		<b>19 Jun 2024</b>	13 Jun 2023	12 Aug 2022
Machine Age	hrs	Client Info	<b>3400</b>	2933	2430
Oil Age	hrs	Client Info	<b>467</b>	500	500
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ATTENTION	ATTENTION

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	▲ 2.2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>9</b>	7
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	1
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0
Copper	ppm	ASTM D5185m	>20	<b>2</b>	<1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>208</b>	115
Barium	ppm	ASTM D5185m		<b>0</b>	0
Molybdenum	ppm	ASTM D5185m		<b>109</b>	68
Manganese	ppm	ASTM D5185m		<b>0</b>	<1
Magnesium	ppm	ASTM D5185m		<b>656</b>	626
Calcium	ppm	ASTM D5185m		<b>1430</b>	1576
Phosphorus	ppm	ASTM D5185m		<b>797</b>	873
Zinc	ppm	ASTM D5185m		<b>970</b>	1052
Sulfur	ppm	ASTM D5185m		<b>2644</b>	3425

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	▲ <b>26</b>	4
Sodium	ppm	ASTM D5185m	>118	<b>0</b>	1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1

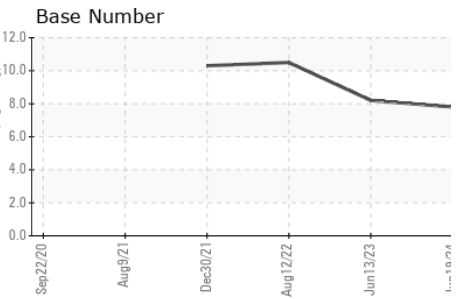
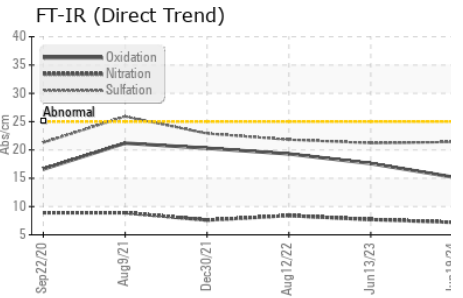
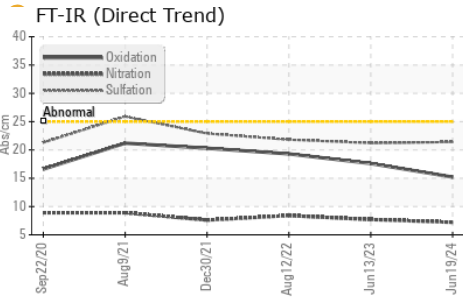
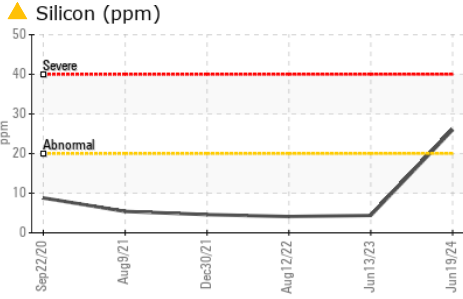
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.4</b>	21.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	17.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.8</b>	8.2

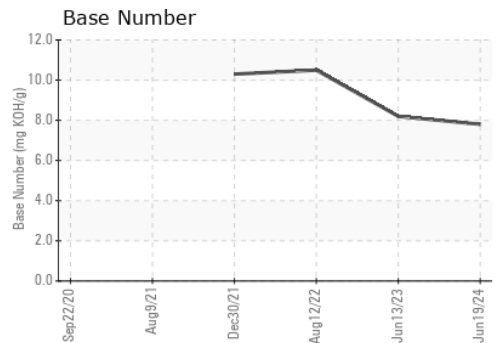
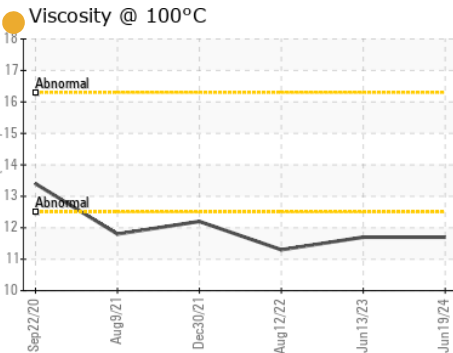
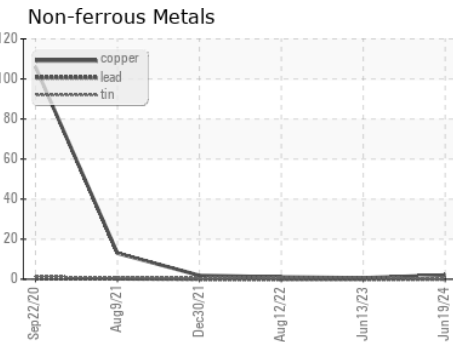
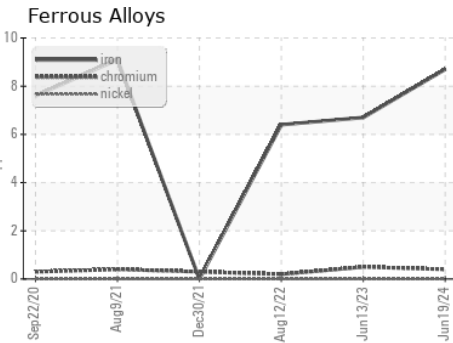
# OIL ANALYSIS REPORT



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	● 11.7	● 11.7	● 11.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001143 **Received** : 20 Jun 2024  
**Lab Number** : 06216501 **Tested** : 22 Jun 2024  
**Unique Number** : 11089365 **Diagnosed** : 23 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**McCLUNG-LOGAN EQUIPMENT CO - MANASSAS**  
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 MMYAHUGH@MCCLUNG-LOGAN.COM  
 T: (703)393-7344  
 F: (703)393-7844

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)