



**McCLUNG-LOGAN**  
EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[STANLEY CON]**  
Machine Id  
**VOLVO A45G 352353**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0000516</b>	VCP409399	VCP367631
Sample Date		Client Info		<b>22 Jan 2024</b>	14 Aug 2023	28 Dec 2022
Machine Age	hrs	Client Info		<b>4155</b>	3500	2441
Oil Age	hrs	Client Info		<b>0</b>	500	287
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>9</b>	19	3
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	3	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	<1
Lead	ppm	ASTM D5185m	>40	<b>2</b>	4	1
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	3	1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

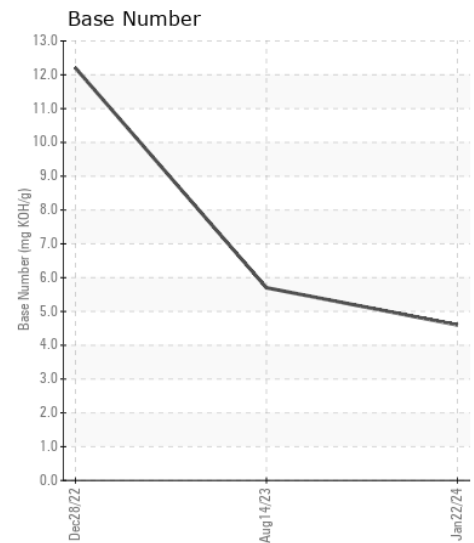
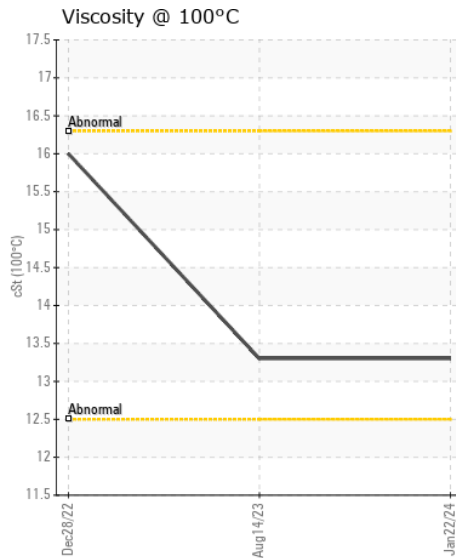
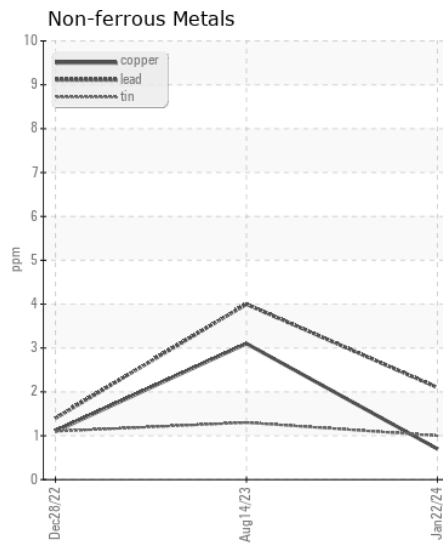
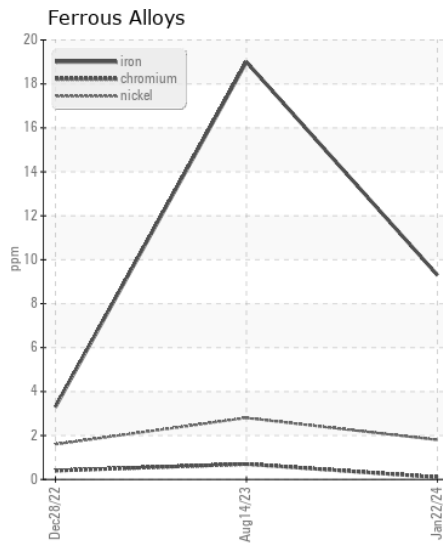
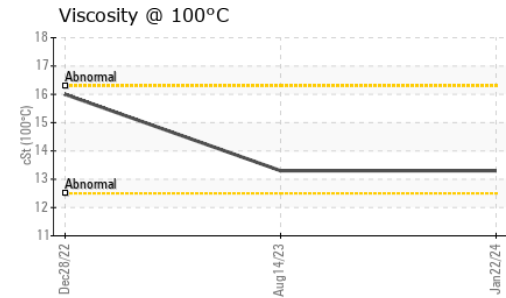
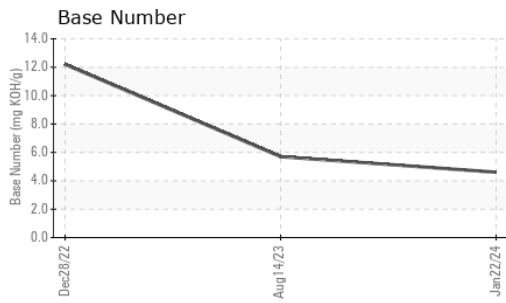
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	0
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.6</b>	11.9	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	24.1	21.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	<b>2</b>	4	3
Boron	ppm	ASTM D5185m		<b>24</b>	22	52
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>80</b>	54	41
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>119</b>	732	524
Calcium	ppm	ASTM D5185m		<b>2073</b>	1462	1719
Phosphorus	ppm	ASTM D5185m		<b>942</b>	761	770
Zinc	ppm	ASTM D5185m		<b>1157</b>	1001	958
Sulfur	ppm	ASTM D5185m		<b>3503</b>	2887	2999
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.1</b>	21.8	21.9
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.6</b>	5.7	12.2
Visc @ 100°C	cSt	ASTM D445		<b>13.3</b>	13.3	16.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0000516 **Received** : 30 Jan 2024  
**Lab Number** : 06073657 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10850334 **Diagnostician** : Don Baldridge  
**Test Package** : CONST ( Additional Tests: TBN )

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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)