



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

OIL ANALYSIS REPORT

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



Area  
**[W02008216]**  
Machine Id  
**VOLVO EC300E 312949**  
Component  
**Rear Left Final Drive**  
Fluid  
**MOBIL MOBILUBE HD 85W140 (1 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: W02008216 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0001606</b>	VCP386192	VCP265966
Sample Date		Client Info		<b>16 Apr 2024</b>	30 Sep 2022	10 Dec 2019
Machine Age	hrs	Client Info		<b>5175</b>	4054	474
Oil Age	hrs	Client Info		<b>500</b>	2000	474
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>389</b>	▲ 679	289
Chromium	ppm	ASTM D5185m	>10	<b>8</b>	▲ 12	7
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	2	0
Titanium	ppm	ASTM D5185m		<b>2</b>	2	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>10</b>	● 21	<1
Lead	ppm	ASTM D5185m	>25	<b>1</b>	<1	1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	2	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

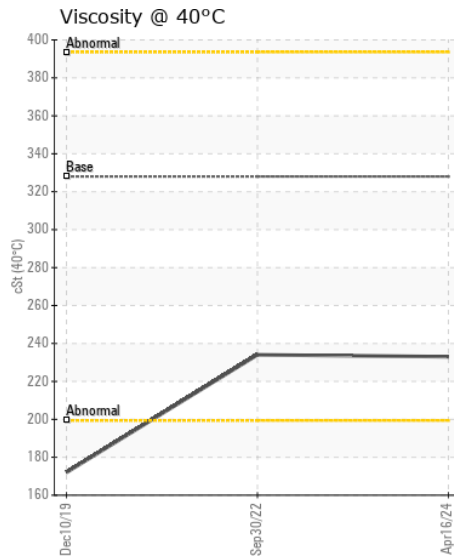
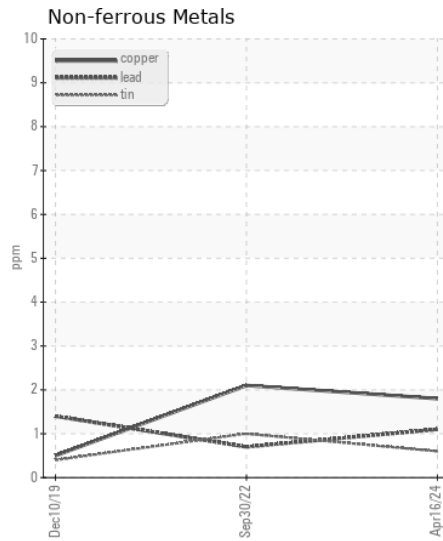
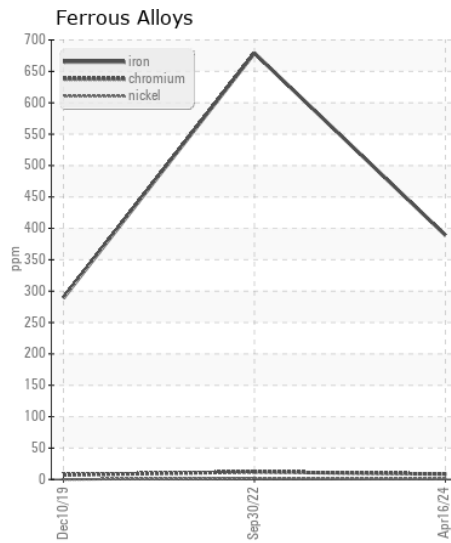
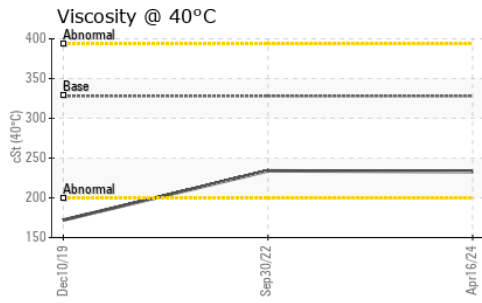
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>65</b>	▲ 121	7
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	7	5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	2
Boron	ppm	ASTM D5185m		<b>94</b>	103	2
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>11</b>	7	0
Manganese	ppm	ASTM D5185m		<b>5</b>	7	7
Magnesium	ppm	ASTM D5185m		<b>93</b>	32	0
Calcium	ppm	ASTM D5185m		<b>274</b>	222	0
Phosphorus	ppm	ASTM D5185m		<b>833</b>	843	413
Zinc	ppm	ASTM D5185m		<b>199</b>	70	10
Sulfur	ppm	ASTM D5185m		<b>24710</b>	19676	13072
Visc @ 40°C	cSt	ASTM D445	328	<b>233</b>	234	172



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001606  
**Lab Number** : 06153532  
**Unique Number** : 10983610  
**Test Package** : CONST

**Received** : 18 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Sean Felton

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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)