



# ASCENDUM

## OIL ANALYSIS REPORT

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

Area

**Ascendum Machinery/250 Hour CSA**

Machine Id

**LEEBOY 8616C 2064 (S/N 208283)**

Component

**Rear Left Planetary**

Fluid

**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0007399</b>	VCP0002449	---
Sample Date		Client Info		<b>14 Feb 2024</b>	01 Jul 2022	---
Machine Age	hrs	Client Info		<b>3975</b>	2658	---
Oil Age	hrs	Client Info		<b>3975</b>	2658	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

### WEAR

Bearing and/or gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 986</b>	▲ 868	---
Chromium	ppm	ASTM D5185m	>10	<b>▲ 13</b>	11	---
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	6	---
Lead	ppm	ASTM D5185m	>25	<b>1</b>	3	---
Copper	ppm	ASTM D5185m	>75	<b>▲ 202</b>	▲ 176	---
Tin	ppm	ASTM D5185m	>10	<b>9</b>	8	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

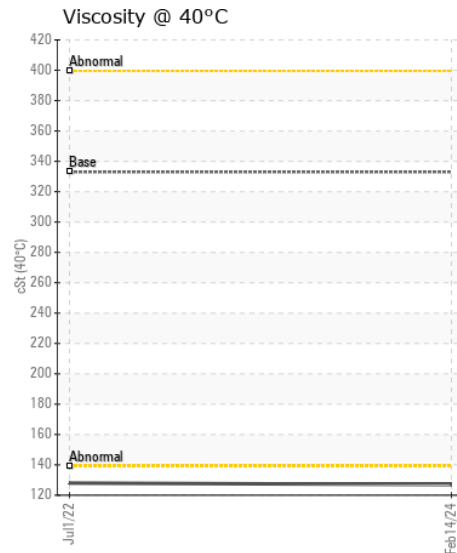
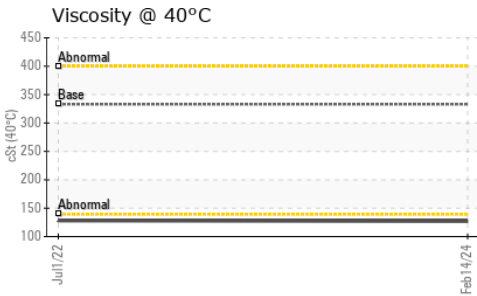
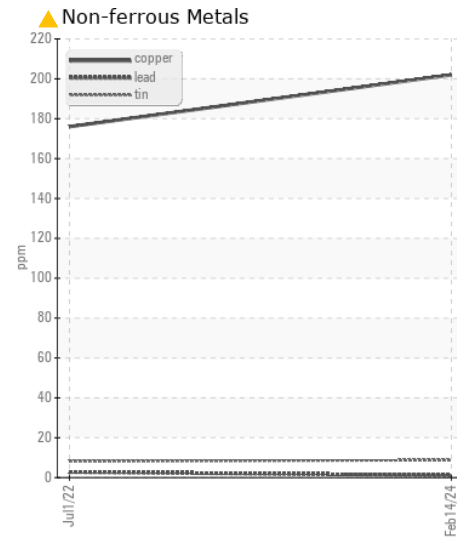
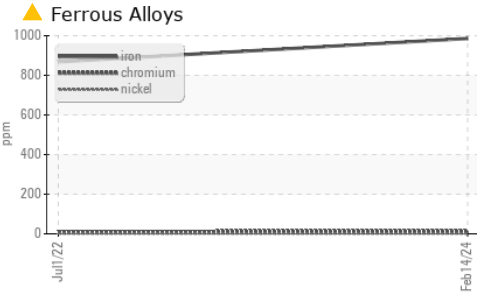
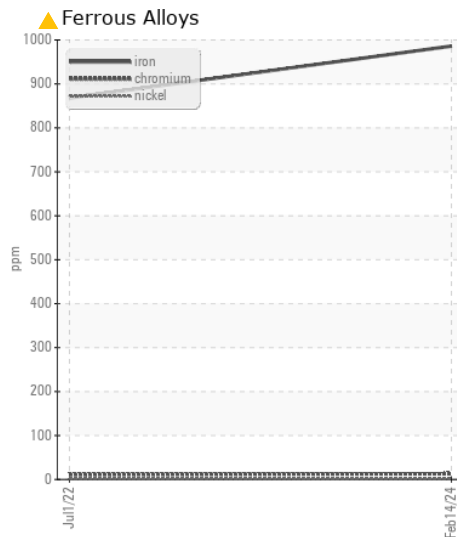
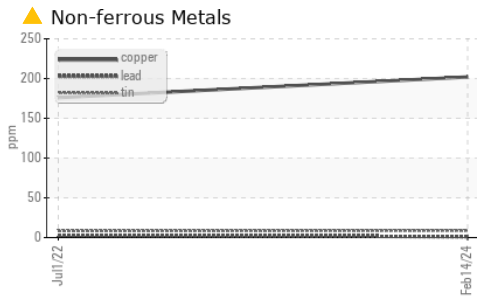
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>18</b>	17	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>17</b>	17	---
Boron	ppm	ASTM D5185m	111	<b>117</b>	130	---
Barium	ppm	ASTM D5185m	0.0	<b>8</b>	9	---
Molybdenum	ppm	ASTM D5185m	0.9	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m	0.0	<b>10</b>	10	---
Magnesium	ppm	ASTM D5185m	39	<b>3</b>	2	---
Calcium	ppm	ASTM D5185m	93	<b>21</b>	42	---
Phosphorus	ppm	ASTM D5185m	920	<b>1978</b>	2000	---
Zinc	ppm	ASTM D5185m	104	<b>46</b>	63	---
Sulfur	ppm	ASTM D5185m	20179	<b>23688</b>	25056	---
Visc @ 40°C	cSt	ASTM D445	333	<b>127</b>	128	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007399  
**Lab Number** : 06102076  
**Unique Number** : 10900306  
**Test Package** : CONST

**Received** : 27 Feb 2024  
**Tested** : 28 Feb 2024  
**Diagnosed** : 29 Feb 2024 - Jonathan Hester

**TRIANGLE GRADING AND PAVING INC**  
 1521 Huffman Mill Rd  
 BURLINGTON, NC  
 US 27216  
 Contact: ADAM CORBETT  
 wacorbett@trianglegradingpaving.com

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)

F: (336)584-0145