



# ASCENDUM

## OIL ANALYSIS REPORT

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



Area  
**Ascendum Machinery/250 Hour CSA**  
Machine Id  
**CATERPILLAR D6E 512 (S/N 2MJ01933)**  
Component  
**Left Final Drive**  
Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0008381</b>	ASC0001240	VCP0002213
Sample Date		Client Info		<b>03 Jul 2024</b>	22 Aug 2023	05 Oct 2022
Machine Age	hrs	Client Info		<b>15323</b>	15323	15323
Oil Age	hrs	Client Info		<b>15323</b>	15323	15323
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>None</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>800	<b>79</b>	45	111
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>75	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	6
Copper	ppm	ASTM D5185m	>75	<b>16</b>	9	37
Tin	ppm	ASTM D5185m	>8	<b>0</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

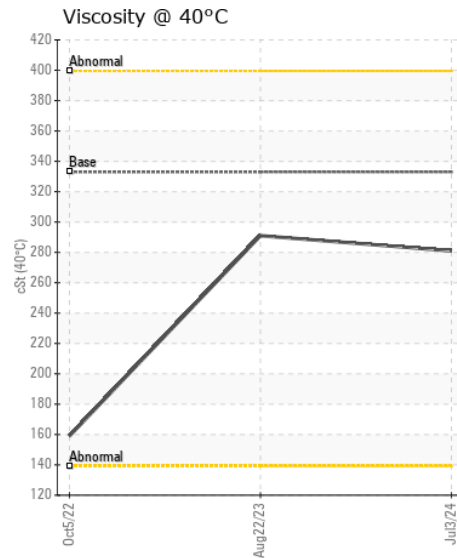
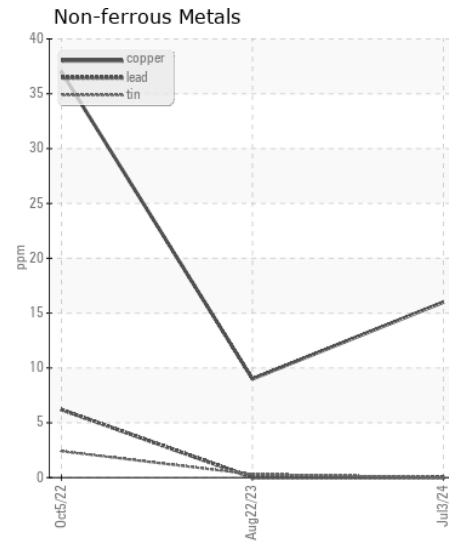
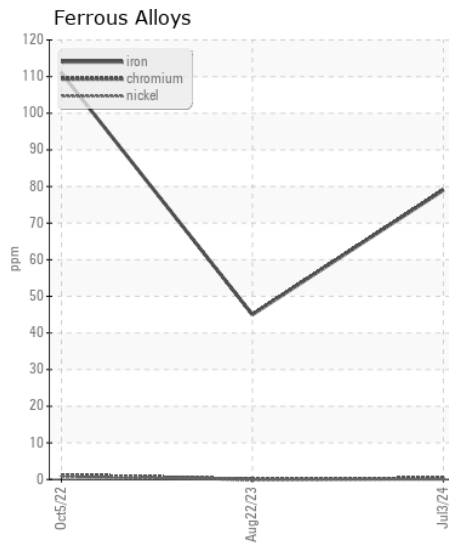
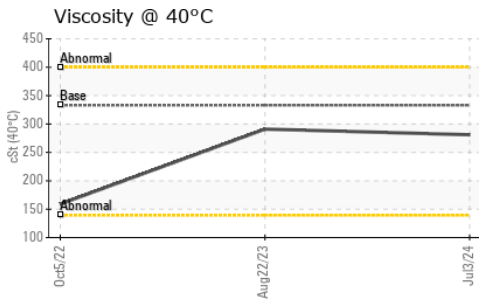
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	<b>12</b>	5	19
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	1
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>3</b>	<1	4
Boron	ppm	ASTM D5185m	111	<b>118</b>	102	0
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<b>1</b>	<1	4
Manganese	ppm	ASTM D5185m	0.0	<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185m	39	<b>19</b>	15	40
Calcium	ppm	ASTM D5185m	93	<b>806</b>	567	3451
Phosphorus	ppm	ASTM D5185m	920	<b>952</b>	659	1033
Zinc	ppm	ASTM D5185m	104	<b>302</b>	221	1245
Sulfur	ppm	ASTM D5185m	20179	<b>26005</b>	19351	13143
Visc @ 40°C	cSt	ASTM D445	333	<b>281</b>	291	159



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0008381  
**Lab Number** : 06233595  
**Unique Number** : 11117088  
**Test Package** : CONST

**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 12 Jul 2024 - Wes Davis

**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)

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