



# ASCENDUM

## OIL ANALYSIS REPORT



Area

**Ascendum Machinery/250 Hour CSA**

Machine Id

**CATERPILLAR D5M 1145 (S/N 5ES00650)**

Component

**Transmission (Manual)**

Fluid

**VOLVO SUPER TRANSMISSION OIL SAE 30 (--- GAL)**

WEAR

**NORMAL**

CONTAMINATION

**NORMAL**

FLUID CONDITION

**NORMAL**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0007033</b>	VCP0007310	VCP0002847
Sample Date		Client Info		<b>17 Apr 2024</b>	27 Feb 2023	02 Jan 2023
Machine Age	hrs	Client Info		<b>4070</b>	270	4070
Oil Age	hrs	Client Info		<b>4070</b>	0	4070
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>19</b>	25	23
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	5	4
Lead	ppm	ASTM D5185m	>45	<b>0</b>	1	1
Copper	ppm	ASTM D5185m	>225	<b>5</b>	10	10
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

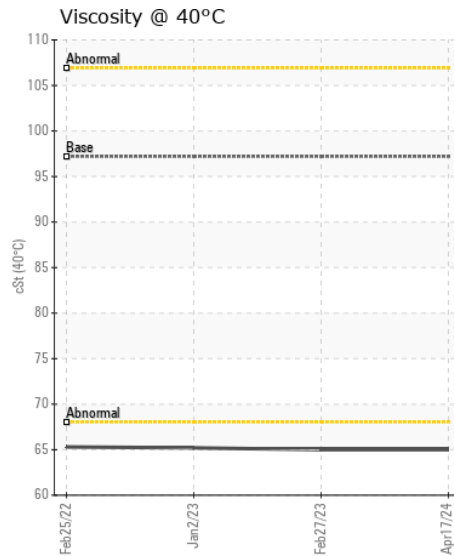
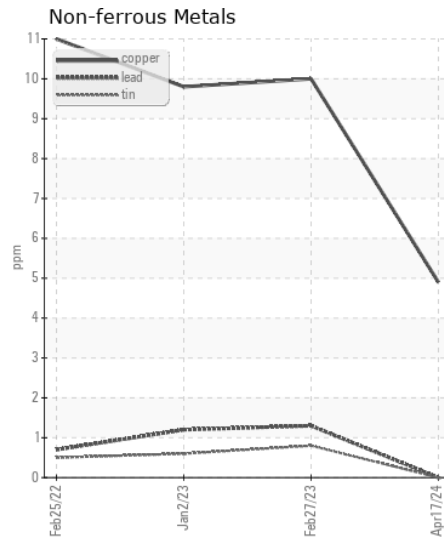
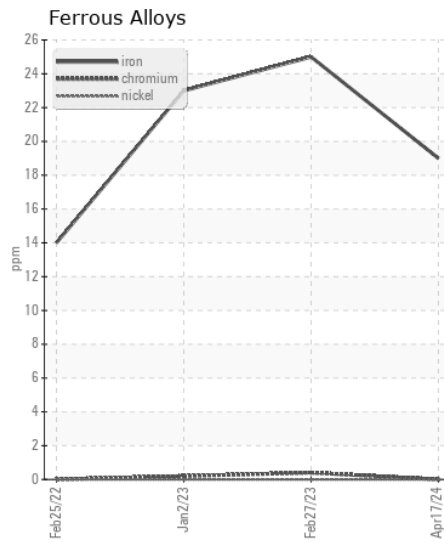
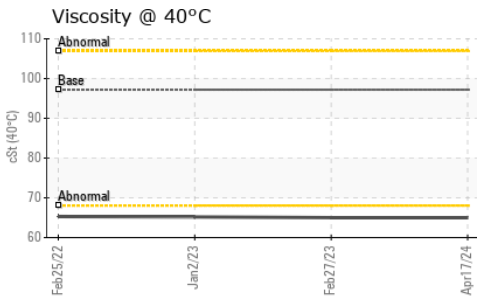
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>11</b>	15	13
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	0
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>2</b>	3	3
Boron	ppm	ASTM D5185m	1.9	<b>10</b>	8	10
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>16</b>	8	7
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	2	<1
Magnesium	ppm	ASTM D5185m	67	<b>153</b>	210	199
Calcium	ppm	ASTM D5185m	2943	<b>2565</b>	2515	2409
Phosphorus	ppm	ASTM D5185m	1122	<b>963</b>	875	874
Zinc	ppm	ASTM D5185m	1358	<b>1126</b>	1111	1069
Sulfur	ppm	ASTM D5185m	7684	<b>4349</b>	4065	3841
Visc @ 40°C	cSt	ASTM D445	97.2	<b>65.0</b>	65.0	65.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007033  
**Lab Number** : 06158155  
**Unique Number** : 10993578  
**Test Package** : CONST

**Received** : 23 Apr 2024  
**Tested** : 24 Apr 2024  
**Diagnosed** : 24 Apr 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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