



# 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 D6R 1353 (S/N 5LN03564)**  
Component  
**Transmission (Manual)**  
Fluid  
**VOLVO SUPER TRANSMISSION OIL SAE 30 (39 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0007871</b>	ASC0000405	VCP0002196
Sample Date		Client Info		<b>26 Jan 2024</b>	15 May 2023	05 Oct 2022
Machine Age	hrs	Client Info		<b>19677</b>	19376	18713
Oil Age	hrs	Client Info		<b>19677</b>	19376	18713
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Oil Added
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>12</b>	8	15
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	3
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>225	<b>8</b>	8	9
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

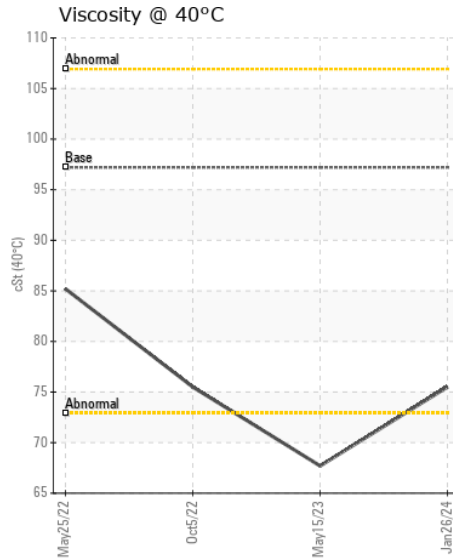
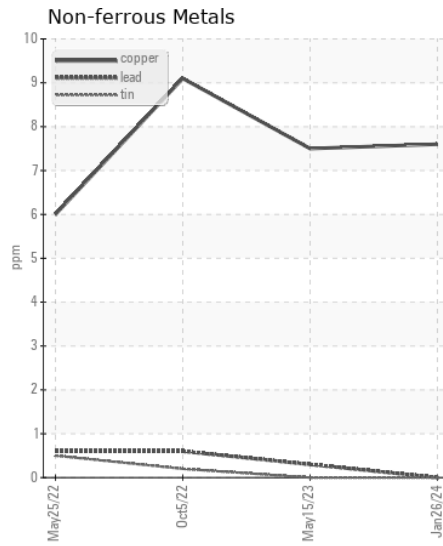
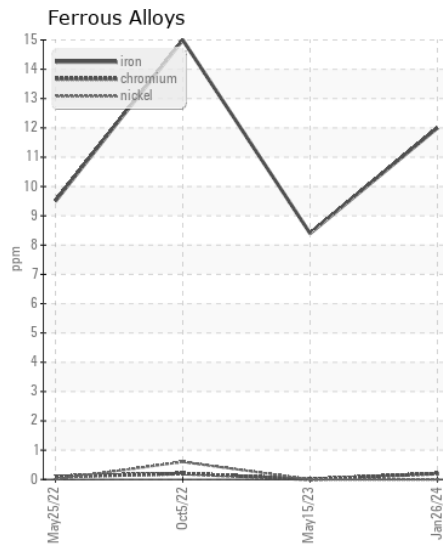
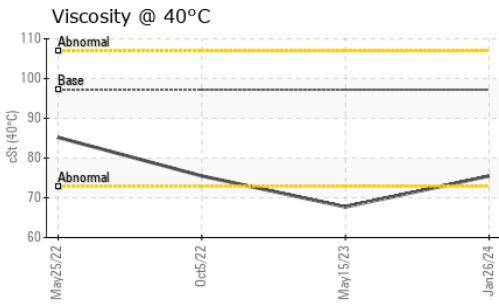
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>11</b>	6	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
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>0</b>	<1	1
Boron	ppm	ASTM D5185m	1.9	<b>18</b>	10	24
Barium	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	0	1
Molybdenum	ppm	ASTM D5185m	0.0	<b>15</b>	5	14
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	67	<b>122</b>	70	184
Calcium	ppm	ASTM D5185m	2943	<b>2152</b>	2088	2044
Phosphorus	ppm	ASTM D5185m	1122	<b>894</b>	768	882
Zinc	ppm	ASTM D5185m	1358	<b>993</b>	901	946
Sulfur	ppm	ASTM D5185m	7684	<b>4962</b>	4279	7359
Visc @ 40°C	cSt	ASTM D445	97.2	<b>75.5</b>	67.7	75.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007871 **Received** : 31 Jan 2024  
**Lab Number** : 06076213 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10858304 **Diagnostician** : Wes Davis  
**Test Package** : CONST

**TRIANGLE GRADING AND PAVING INC**  
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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)