



ASCENDUM

OIL ANALYSIS REPORT

WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**



Area

Ascendum Machinery/250 Hour CSA

Machine Id

CATERPILLAR D6E 512 (S/N 2MJ01933)

Component

Transmission (Manual)

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008384	ASC0001004	VCP0002214
Sample Date		Client Info		03 Jul 2024	22 Aug 2023	05 Oct 2022
Machine Age	hrs	Client Info		15323	15323	0
Oil Age	hrs	Client Info		15323	15323	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	76	180	191
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	9	12
Lead	ppm	ASTM D5185m	>45	3	4	8
Copper	ppm	ASTM D5185m	>225	54	97	85
Tin	ppm	ASTM D5185m	>10	<1	4	4
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

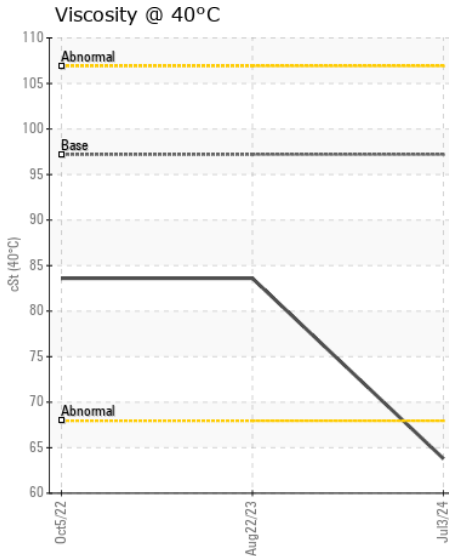
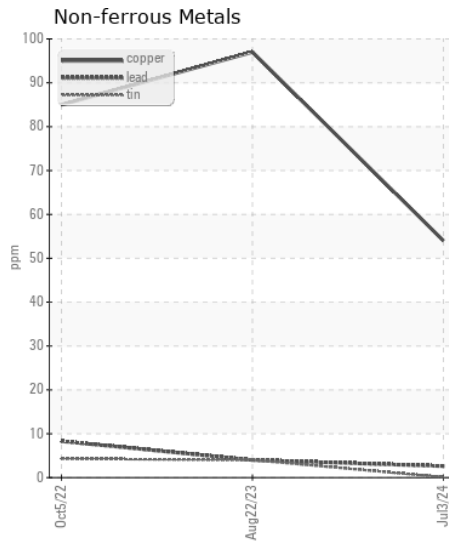
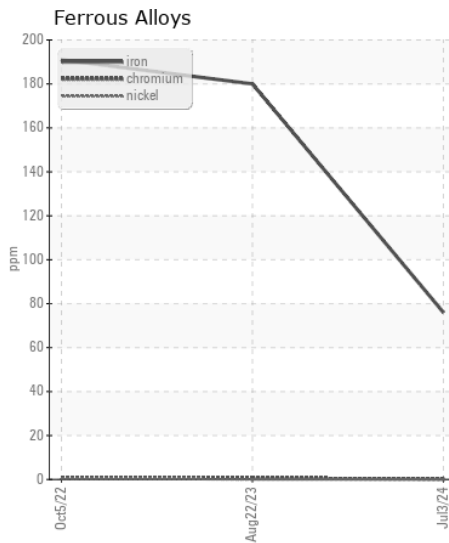
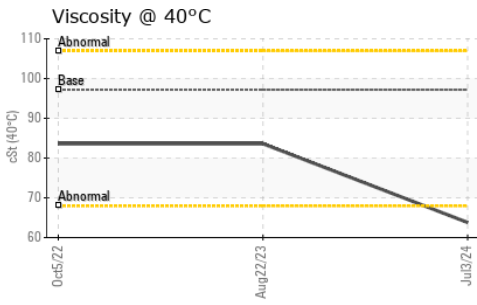
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	18	33	42
Potassium	ppm	ASTM D5185m	>20	0	0	3
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	3
Boron	ppm	ASTM D5185m	1.9	10	1	6
Barium	ppm	ASTM D5185m	0.0	0	0	2
Molybdenum	ppm	ASTM D5185m	0.0	14	13	17
Manganese	ppm	ASTM D5185m	0.0	1	2	2
Magnesium	ppm	ASTM D5185m	67	168	326	208
Calcium	ppm	ASTM D5185m	2943	2650	2657	3273
Phosphorus	ppm	ASTM D5185m	1122	922	913	950
Zinc	ppm	ASTM D5185m	1358	1059	1054	1142
Sulfur	ppm	ASTM D5185m	7684	4633	5219	6210
Visc @ 40°C	cSt	ASTM D445	97.2	63.8	83.6	83.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0008384
Lab Number : 06233659
Unique Number : 11117152
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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