



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
CATERPILLAR 745D 13400 (S/N 3T606050)
 Component
Center Differential
 Fluid
{not provided} (--- GAL)



DIAGNOSIS

▲ Recommendation

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

▲ Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0887965	---	---
Sample Date	Client Info		05 Jan 2024	---	---
Machine Age	hrs	Client Info	1995	---	---
Oil Age	hrs	Client Info	1995	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	155	---
Chromium	ppm	ASTM D5185m	>3	1	---
Nickel	ppm	ASTM D5185m	>3	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	---
Silver	ppm	ASTM D5185m	>2	0	---
Aluminum	ppm	ASTM D5185m	>30	9	---
Lead	ppm	ASTM D5185m	>13	<1	---
Copper	ppm	ASTM D5185m	>103	▲ 153	---
Tin	ppm	ASTM D5185m	>5	1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	---
Barium	ppm	ASTM D5185m		3	---
Molybdenum	ppm	ASTM D5185m		4	---
Manganese	ppm	ASTM D5185m		2	---
Magnesium	ppm	ASTM D5185m		9	---
Calcium	ppm	ASTM D5185m		3317	---
Phosphorus	ppm	ASTM D5185m		1085	---
Zinc	ppm	ASTM D5185m		1291	---
Sulfur	ppm	ASTM D5185m		9989	---

CONTAMINANTS

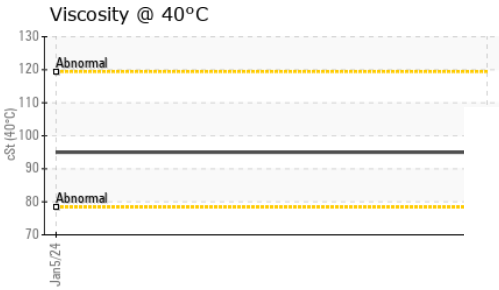
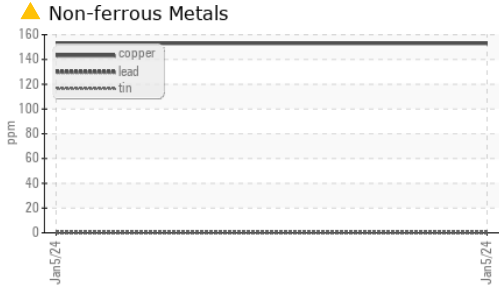
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	25	---
Sodium	ppm	ASTM D5185m		0	---
Potassium	ppm	ASTM D5185m	>20	2	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	---
Free Water	scalar	*Visual		NEG	---



OIL ANALYSIS REPORT



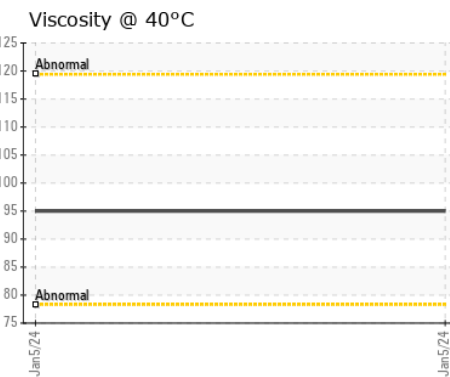
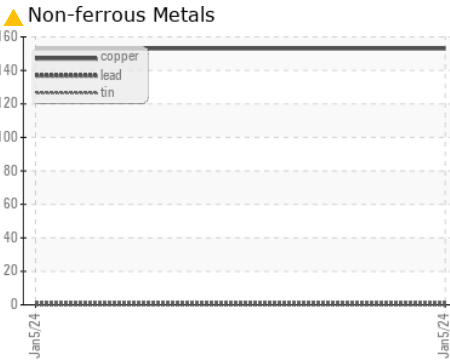
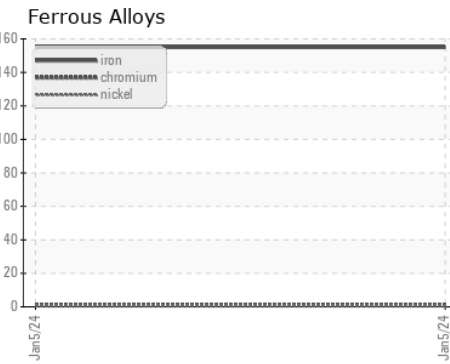
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	95.0	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0887965 **Recieved** : 12 Jan 2024
Lab Number : **06059662** **Diagnosed** : 16 Jan 2024
Unique Number : 10831044 **Diagnostician** : Jonathan Hester
Test Package : CONST

TRADER CONSTRUCTION CO.
 PO DRAWER 1578
 NEW BERN, NC
 US 28563
 Contact: MIKE WYATT
 mw Wyatt@traderconstruction.com
 T: (252)633-1399
 F: (252)638-4871

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)