

OIL ANALYSIS REPORT



Sample Rating Trend







CATERPILLAR 745D 13399 (S/N 3T606049) Component

Rear Differential

TDTO FLUID SAE 30 (--

DIAGNOSIS

Recommendation

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

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

Contamination

There is no indication of any contamination in the

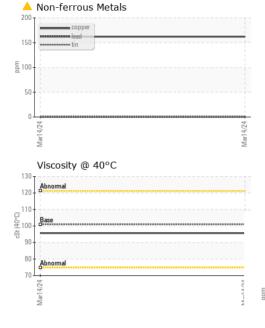
Fluid Condition

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

GAL)				Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888213		
Sample Date		Client Info		14 Mar 2024		
Machine Age	hrs	Client Info		2169		
Oil Age	hrs	Client Info		2169		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	164		
Chromium	ppm	ASTM D5185m	>3	2		
Nickel	ppm	ASTM D5185m	>3	- <1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver		ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>30	14		
	ppm					
Lead	ppm	ASTM D5185m	>13	0		
Copper	ppm	ASTM D5185m	>103	<u> 162</u>		
Tin	ppm	ASTM D5185m	>5	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	1		
Barium	ppm	ASTM D5185m	7	0		
Molybdenum	ppm	ASTM D5185m	5	4		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m	40	9		
Calcium	ppm	ASTM D5185m	2650	3042		
Phosphorus	ppm	ASTM D5185m	1050	997		
Zinc	ppm	ASTM D5185m	1075	1207		
Sulfur	ppm	ASTM D5185m	5750	8988		
CONTAMINANTS		method	limit/base	current	hiotorya	history2
					history1	HIStory2
Silicon	ppm	ASTM D5185m	>100	23		
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		
1:14:17) Rev: 1	Joanai				ation: MIKE WY	

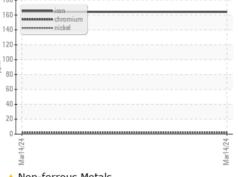


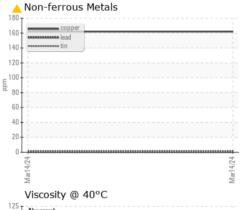
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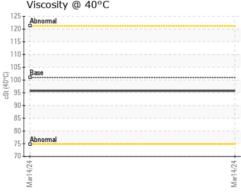


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	101	95.7		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						

Ferrous Alloys











Laboratory Sample No.

: WC0888213 Lab Number : 06122755 Unique Number : 10936906 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 **Tested**

Diagnosed

: 20 Mar 2024 : 21 Mar 2024 - Jonathan Hester TRADER CONSTRUCTION CO. PO DRAWER 1578 NEW BERN, NC

US 28563

Contact: MIKE WYATT mwyatt@traderconstruction.com

T: (252)633-1399 F: (252)638-4871

Certificate L2367 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)