

PROBLEM SUMMARY

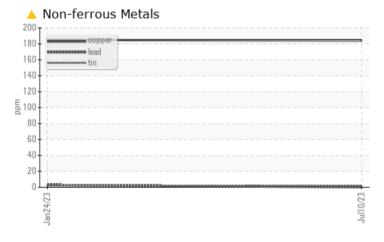
CATERPILLAR 745D 13377 (S/N 3T603285)

Sample Rating Trend **VISUAL METAL**

Center Differential Fluid TDTO FLUID SAE 30 (--- GAL)

Component

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL			
Copper	ppm	ASTM D5185m	>103	🔺 184	1 85			
Yellow Metal	scalar	*Visual	NONE	🔺 HEAVY	NONE			

Customer Id: TRANEW Sample No.: WC0831224 Lab Number: 05898937 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.	
Resample			?	We recommend an early resample to monitor this condition.	

HISTORICAL DIAGNOSIS



24 Jan 2023 Diag: Don Baldridge

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL



CATERPILLAR 745D 13377 (S/N 3T603285) Component

Center Differential Fluid

TDTO FLUID SAE 30 (--- GAL)

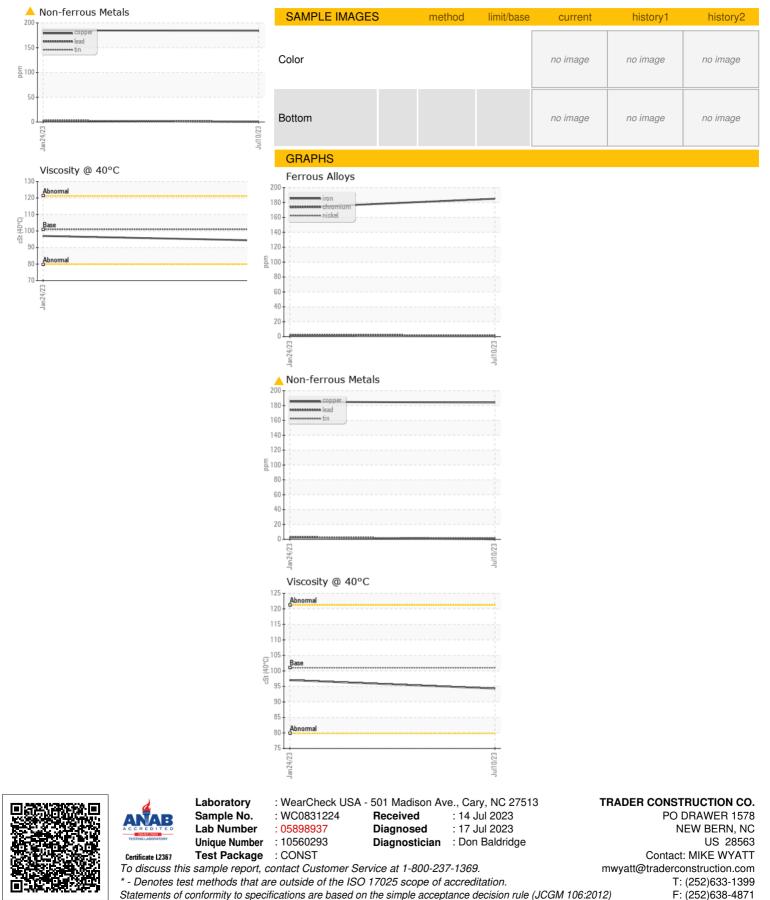
DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	e current	history1	history2
A Recommendation	Sample Number		Client Info		WC0831224	WC0775864	
The oil change at the time of sampling has been	Sample Date		Client Info		10 Jul 2023	24 Jan 2023	
noted. We advise that you inspect for the source(s)	Machine Age	hrs	Client Info		4089	2025	
of wear. We recommend an early resample to	Oil Age	hrs	Client Info		2064	2025	
monitor this condition.	Oil Changed		Client Info		Changed	Changed	
A Wear	Sample Status				ABNORMAL	ABNORMAL	
The copper level is abnormal. High concentration of visible yellow metal present.	WEAR METALS		method	limit/base	e current	history1	history2
Contamination	Iron	ppm	ASTM D5185m		185	173	
There is no indication of any contamination in the	Chromium	ppm	ASTM D5185m		1	2	
bil.	Nickel	ppm	ASTM D5185m		0	<1	
luid Condition	Titanium	ppm	ASTM D5185m		0	<1	
he condition of the oil is acceptable for the time in	Silver	ppm	ASTM D5185m		0	3	
ervice.	Aluminum	ppm	ASTM D5185m		19	12	
	Lead		ASTM D5185m		0	3	
	Copper	ppm	ASTM D5185m		↓ 184	▲ 185	
	Tin	ppm	ASTM D5185m		2	2	
		ppm		>0			
	Vanadium Cadmium	ppm ppm	ASTM D5185m ASTM D5185m		0	0 <1	
	ADDITIVES	le le	method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		105	<1	
	Barium		ASTM D5185m		0	<1	
		ppm	ASTM D5185m			2	
	Molybdenum	ppm		5	<1	3	
	Manganese	ppm	ASTM D5185m	40	2		
	Magnesium	ppm	ASTM D5185m		4	13	
	Calcium	ppm	ASTM D5185m		761	3009	
	Phosphorus	ppm	ASTM D5185m		527	987	
	Zinc	ppm	ASTM D5185m		309	1211	
	Sulfur	ppm	ASTM D5185m		3920	8686	
	CONTAMINANTS		method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>100	10	22	
	Sodium	ppm	ASTM D5185m		1	2	
	Potassium	ppm	ASTM D5185m	>20	<1	0	
	VISUAL		method	limit/base	e current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	🔺 HEAVY	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPERT	TIES	method	limit/base	e current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	101	94.3	97.0	

Report Id: TRANEW [WUSCAR] 05898937 (Generated: 07/18/2023 04:23:32) Rev: 1

Contact/Location: MIKE WYATT - TRANEW



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MIKE WYATT - TRANEW