

PROBLEM SUMMARY

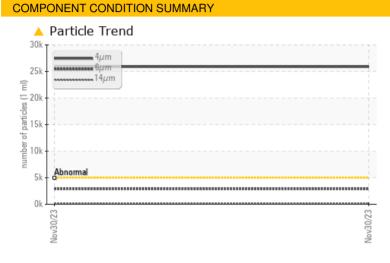
CATERPILLAR 745D 13391 (S/N 3T603813)

TDH FLUID SAE 75W80 (--- GAL)

Sample Rating Trend ISO

Component

Hydraulic System



RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 75W80. Please confirm.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	
Particles >4µm	ASTM D7647 >5000	<u> </u>	
Particles >6µm	ASTM D7647 >1300	A 2900	
Particles >14µm	ASTM D7647 >160	<u> </u>	
Oil Cleanliness	ISO 4406 (c) >19/17/	4 🔺 22/19/15	

Customer Id: TRANEW Sample No.: WC0879421 Lab Number: 06026349 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS				
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Alert			?	The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 75W80. Please confirm.
Information Required			?	The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 75W80. Please confirm.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

limit/base

current

history1

method

ISO

history2



Machine Io CATERPILLAR 745D 13391 (S/N 3T603813) Component

SAMPLE INFORMATION

Hydraulic System

TDH FLUID SAE 75W80 (--- GAL)

WC0879421 Sample Number Client Info Sample Date Client Info 30 Nov 2023 Μ 0 0 S W lr С Ν Т S А L С Т V С В В Ν N Ν С Ρ Ζ S S S Ρ Р P Р Ρ Р Р **Oil Cleanliness** ISO 4406 (c) >19/17/14 A 22/19/15

Sample Date		Client Into		30 NOV 2023		
Machine Age	hrs	Client Info		2021		
Oil Age	hrs	Client Info		2021		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	1		
Lead	ppm	ASTM D5185m	>10	1		
Copper	ppm	ASTM D5185m	>75	<1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	0		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	10	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	11		
Calcium	ppm	ASTM D5185m	3500	2845		
Phosphorus	ppm	ASTM D5185m	1150	956		
Zinc	ppm	ASTM D5185m	1150	1117		
Sulfur	ppm	ASTM D5185m	5000	3782		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	25883		
Particles >6µm		ASTM D7647		A 2900		
Particles >14µm		ASTM D7647		▲ 180		
Particles >21µm		ASTM D7647		45		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647		0		
		1011101041	20	•		

Recommendation

DIAGNOSIS

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 75W80. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Acid Number (AN)	mg K

FLUID DEGRADATION

KOH/g ASTM D8045 2.25

method

limit/base

current 1.59

Report Id: TRANEW [WUSCAR] 06026349 (Generated: 12/08/2023 06:27:42) Rev: 1

Contact/Location: MIKE WYATT - TRANEW

history1

history2



🔺 Particle Trend

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Number (mg KC

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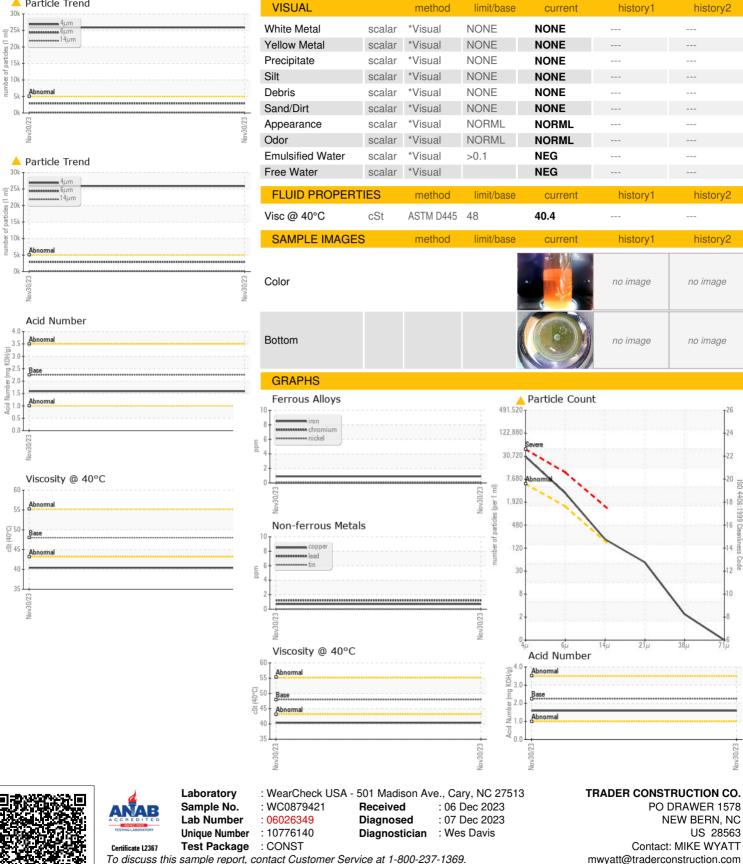
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OIL ANALYSIS REPORT



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)

Contact/Location: MIKE WYATT - TRANEW

NEW BERN, NC

T: (252)633-1399

F: (252)638-4871

US 28563

history2

historv2

history2

no imade

no imade

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