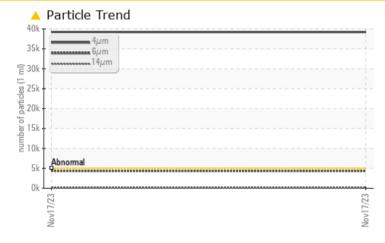


# PROBLEM SUMMARY

Sample Rating Trend

#### Machine Id CATERPILLAR 745D 13393 (S/N 3T605704) Component Hydraulic System Fluid TDH FLUID SAE 70W80 (--- GAL)

### COMPONENT CONDITION SUMMARY



#### 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 70W80. Please confirm.

### PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	 
Particles >4µm	ASTM D7647	>5000	<u> </u>	 
Particles >6µm	ASTM D7647	>1300	<b>4358</b>	 
Particles >14µm	ASTM D7647	>160	<u> </u>	 
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>/</u> 22/19/15	 

Customer Id: TRANEW Sample No.: WC0831282 Lab Number: 06026346 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 70W80. Please confirm.	
Information Required			?	The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 70W80. Please confirm.	

HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO



Machine Ic CATERPILLAR 745D 13393 (S/N 3T605704) Component

**Hydraulic System** 

TDH FLUID SAE 70W80 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		WC0831282		
The filter change at the time of sampling has been	Sample Date		Client Info		17 Nov 2023		
noted. We recommend an early resample to	Machine Age	hrs	Client Info		1915		
monitor this condition. The fluid was not specified,	Oil Age	hrs	Client Info		1915		
however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 70W80. Please	Oil Changed		Client Info		Not Changd		
confirm.	Sample Status				ABNORMAL		
Wear	CONTAMINATIO	N	method	limit/base	current	history1	history2
All component wear rates are normal.	Water		WC Method		NEG		
Contamination	WEAR METALS		method	limit/base		history1	history2
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.							
Fluid Condition	Iron	ppm	ASTM D5185m		<1		
The AN level is acceptable for this fluid. The oil is	Chromium	ppm	ASTM D5185m		0		
still serviceable provided that the contaminant(s)	Nickel	ppm	ASTM D5185m	>10	0		
can be reduced to acceptable levels.	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	10	0		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		<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	2902		
	Phosphorus	ppm	ASTM D5185m	1150	980		
	Zinc	ppm	ASTM D5185m	1150	1173		
	Sulfur	ppm	ASTM D5185m	5000	3884		
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	5		
	Sodium	ppm	ASTM D5185m		2		
	Potassium	ppm	ASTM D5185m	>20	0		
	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	<b>A</b> 39217		
	Particles >6µm		ASTM D7647	>1300	<u> </u>		
	Particles >14µm		ASTM D7647	>160	<u> </u>		
	Particles >21µm		ASTM D7647	>40	51		
	Particles >38µm		ASTM D7647	>10	2		
	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 22/19/15		
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (ANI)	mg KOH/g	ASTM D8045	2.25	1.63		
	Acid Number (AN)	iliy Kon/y	A0110 D0040	2.20	1.00		

Report Id: TRANEW [WUSCAR] 06026346 (Generated: 12/08/2023 06:27:32) Rev: 1

Contact/Location: MIKE WYATT - TRANEW



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3.5

0.5 (Mrmper (mg KOH/g)) 3.5 2.5 2.0 1.5 1.5 Ba

-B 1.0

0.5 0.0

60

55

5

(0°0 (0°0) (0°0) (0°0) ŝ

40

35 A 30 Jav17/23

回行

Acid Number

Abnormal

Viscosity @ 40°C

## **OIL ANALYSIS REPORT**

method

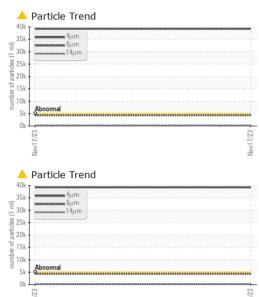
limit/base

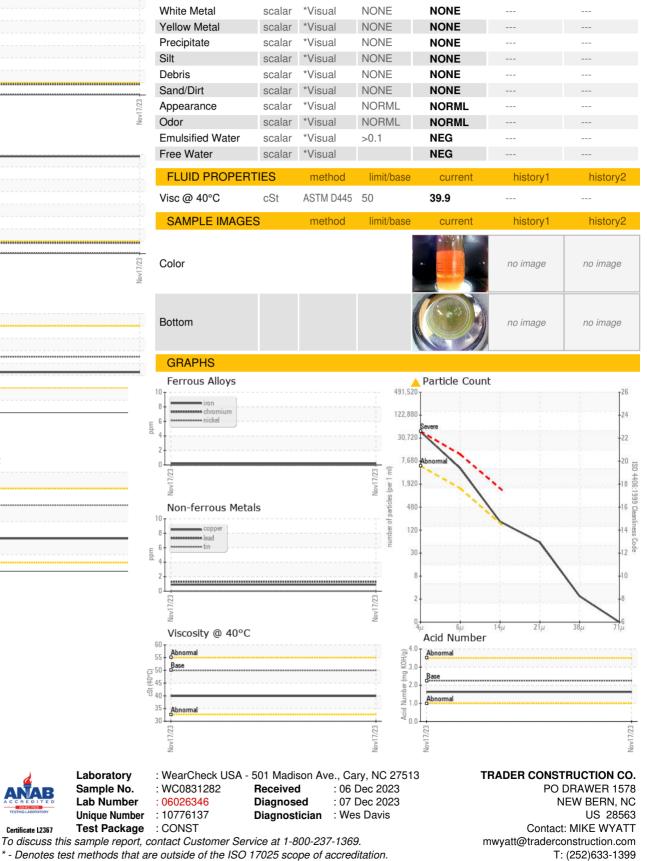
current

history1

history2

VISUAL





Laboratory

Sample No.

Certificate L2367

Report Id: TRANEW [WUSCAR] 06026346 (Generated: 12/08/2023 06:27:32) Rev: 1

Lab Number

F: (252)638-4871