

PROBLEM SUMMARY



CATERPILLAR 745D 13399 (S/N 3T606049)

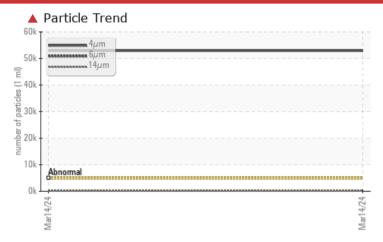
Hydraulic System

TDH FLUID SAE 70W80 (--- GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. 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			SEVERE						
Particles >4µm	ASTM D7647	>5000	52896						
Particles >6µm	ASTM D7647	>1300	4918						
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/19/15						

Customer Id: TRANEW Sample No.: WC0888130 Lab Number: 06122277 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			?	Resample in 30-45 days to monitor this situation.			
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.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Seals			?	Check seals and/or filters for points of contaminant entry.			

HISTORICAL DIAGNOSIS



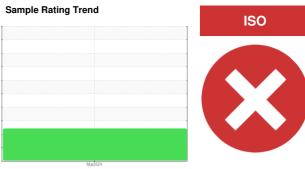
OIL ANALYSIS REPORT



CATERPILLAR 745D 13399 (S/N 3T606049)

Hydraulic System

TDH FLUID SAE 70W8



DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 70W80. Please confirm.

Wear

All component wear rates are normal.

▲ Contamination

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

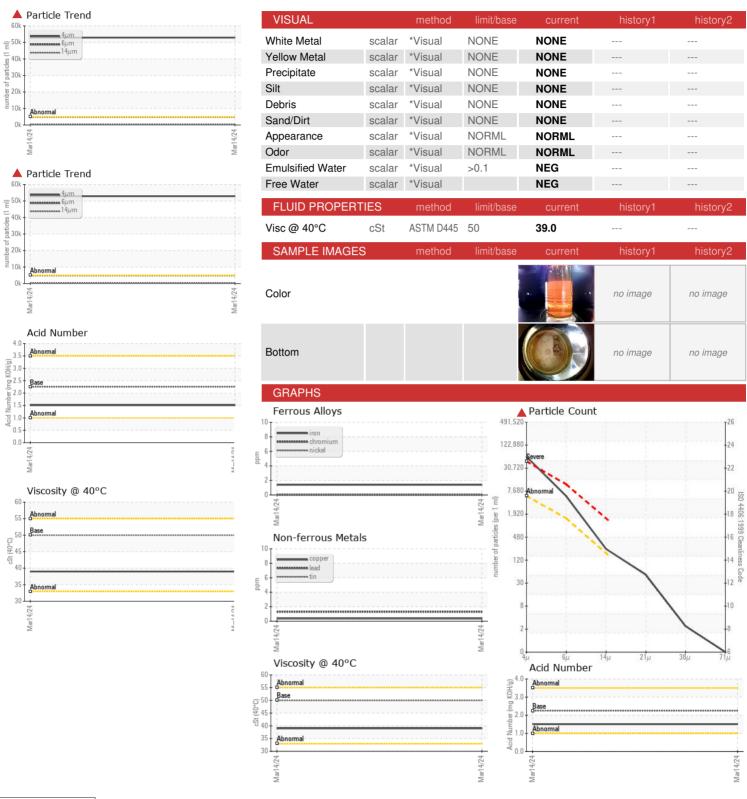
Fluid Condition

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

0 (GAL)						
CAMPLE INFORM	AATION			Mar2024	hinton d	history.O
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888130		
Sample Date		Client Info		14 Mar 2024		
Machine Age	hrs	Client Info		2169		
Oil Age	hrs	Client Info		2169		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINATIO	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		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>10	1		
Copper	ppm	ASTM D5185m	>75	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	14		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	10	<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	11		
Calcium	ppm	ASTM D5185m	3500	3194		
Phosphorus	ppm	ASTM D5185m	1150	1015		
Zinc	ppm	ASTM D5185m	1150	1253		
Sulfur	ppm	ASTM D5185m	5000	4497		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	52896		
Particles >6µm		ASTM D7647	>1300	4918		
Particles >14µm		ASTM D7647	>160	207		
Particles >21µm		ASTM D7647	>40	44		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/19/15		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	1.51		



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06122277

Unique Number: 10936428 Test Package : CONST

: WC0888130

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 : 20 Mar 2024

Tested Diagnosed

: 20 Mar 2024 - Wes Davis

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)

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