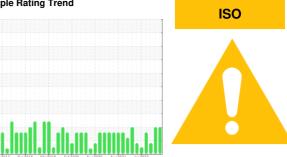


PROBLEM SUMMARY

Sample Rating Trend



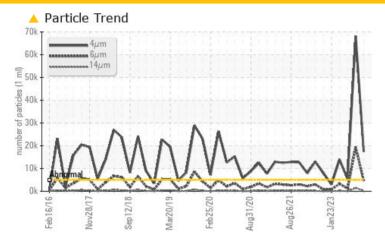


CATERPILLAR D10T 15105048 (S/N CCAT0D10THRJG01478)

Hydraulic System

ROYAL PURPLE SYNDRAULIC (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS									
Sample Status		ABNORM	AL ABNORMAL	ATTENTION					
Particles >4µm	ASTM D7647 >	>5000 A 17387	<u></u>	<u></u> 5485					
Particles >6µm	ASTM D7647 >	>1300 4698	▲ 19486	1241					
Particles >14µm	ASTM D7647 >	>160 ^ 290	<u>▲</u> 1423	68					
Particles >21µm	ASTM D7647 >	>40 ^ 73	▲ 373	18					
Oil Cleanliness	ISO 4406 (c) >	>19/17/14 _ 21/19/1	5 <u>A</u> 23/21/18	<u>^</u> 20/17/13					

Customer Id: NRGJEW Sample No.: RP0033694 Lab Number: 05905461 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

08 Jun 2023 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



01 May 2023 Diag: Don Baldridge

ISO



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



06 Apr 2023 Diag: Don Baldridge

ISO



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend





CATERPILLAR D10T 15105048 (S/N CCAT0D10THRJG01478)

Hydraulic System

ROYAL PURPLE SYNDRAULIC (--- GAL)



Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

DRAULIC (GAL)							
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		RP0033694	RP0032884	RP0032894	
Sample Date		Client Info		12 Jul 2023	08 Jun 2023	01 May 2023	
Machine Age	hrs	Client Info		68943	68609	68172	
Oil Age	hrs	Client Info		334	821	384	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	<1	3	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m		<1	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1	
Lead	ppm	ASTM D5185m	>10	<1	<1	0	
Copper	ppm	ASTM D5185m	>75	7	12	7	
Tin	ppm	ASTM D5185m	>10	0	0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	0	0	
Barium	ppm	ASTM D5185m		<1	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m		0	<1	0	
Calcium	ppm	ASTM D5185m	150	44	37	29	
Phosphorus	ppm	ASTM D5185m	670	365	314	334	
Zinc	ppm	ASTM D5185m	800	459	358	387	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	4	3	2	
Sodium	ppm	ASTM D5185m		0	5	2	
Potassium	ppm	ASTM D5185m	>20	1	0	0	
Water	%	ASTM D6304	>0.1	0.005	0.007	0.004	
ppm Water	ppm	ASTM D6304	>1000	52.6	78.4	44.8	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	17387	△ 68098	<u></u> 5485	
Particles >6µm		ASTM D7647	>1300	4698	<u>19486</u>	1241	
Particles >14µm		ASTM D7647	>160	290	<u>▲</u> 1423	68	
Particles >21µm		ASTM D7647	>40	^ 73	▲ 373	18	
Particles >38µm		ASTM D7647	>10	3	8	1	
Particles >71µm		ASTM D7647	>3	1	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/15	△ 23/21/18	△ 20/17/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	

Acid Number (AN)

mg KOH/g ASTM D8045 1.0

0.40

0.41

0.39



OIL ANALYSIS REPORT

