

PROBLEM SUMMARY

Sample Rating Trend



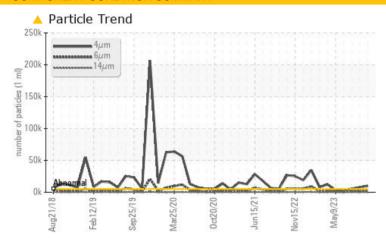


CATERPILLAR D10T 15105050 (S/N CATOD10TCRJG01497)

Hydraulic System

ROYAL PURPLE SYNDRAULIC 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	ATTENTION	ATTENTION				
Particles >4μm	ASTM D7647	>5000	9865	<u>▲</u> 8011	<u></u> 5574				
Particles >6µm	ASTM D7647	>1300	2216	<u> </u>	<u>2057</u>				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/18/14	2 0/18/14	2 0/18/15				

Customer Id: NRGJEW Sample No.: RP0033739 Lab Number: 05963587 Test Package: IND 2



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
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

25 Aug 2023 Diag: Doug Bogart





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 acceptable for the time in service.



13 Jul 2023 Diag: Angela Borella

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 particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

14 Jun 2023 Diag: Doug Bogart

NORMAL



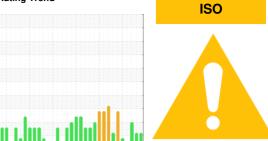
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend





CATERPILLAR D10T 15105050 (S/N CATOD10TCRJG01497)

Hydraulic System

ROYAL PURPLE SYNDRAULIC 46 (--- GAL)

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

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

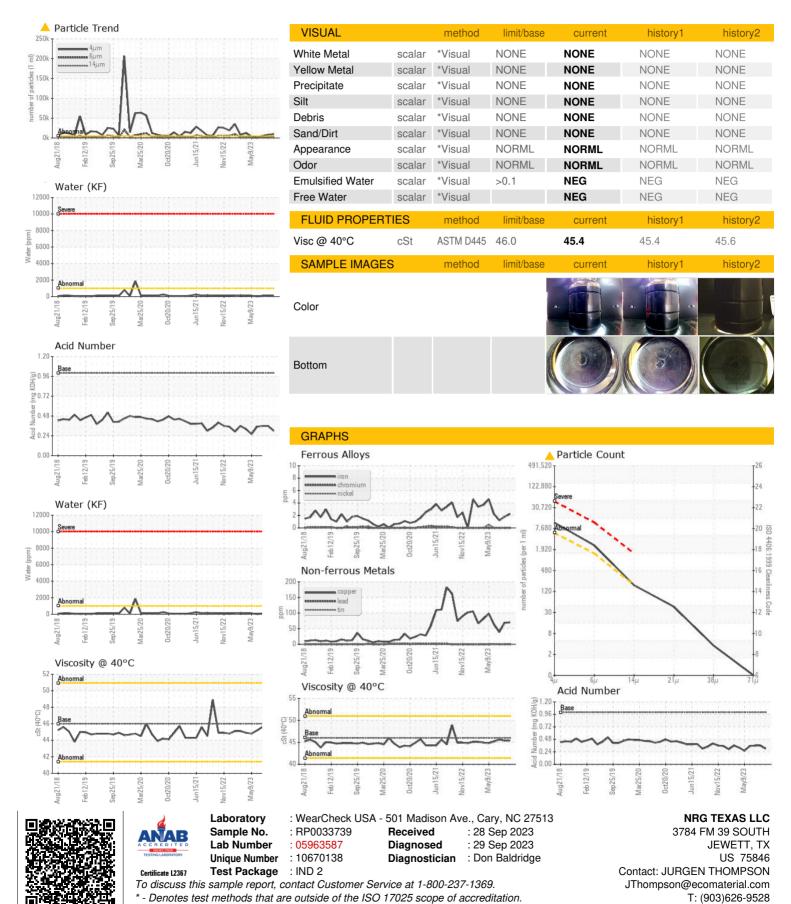
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

`		g2018 Feb20	19 Sep 2019 Mar 2020	Oct2020 Jun2021 Nov2022 I	May2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0033739	RP0033744	RP0033699
Sample Date		Client Info		21 Sep 2023	25 Aug 2023	13 Jul 2023
Machine Age	hrs	Client Info		75411	75191	74726
Oil Age	hrs	Client Info		998	773	313
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	2	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	70	69	39
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	2	<1
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m	150	38	40	36
Phosphorus	ppm	ASTM D5185m	670	350	334	322
Zinc	ppm	ASTM D5185m	800	351	361	370
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	<1	1
Sodium	ppm	ASTM D5185m		5	0	0
Potassium	ppm	ASTM D5185m	>20	0	1	1
Water	%	ASTM D6304	>0.1	0.008	0.007	0.007
ppm Water	ppm	ASTM D6304	>1000	82.2	78.6	71.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	9865	▲ 8011	△ 5574
Particles >6µm		ASTM D7647	>1300	<u>2216</u>	<u></u> 1641	<u>^</u> 2057
Particles >14µm		ASTM D7647	>160	160	108	<u> </u>
Particles >21µm		ASTM D7647	>40	39	29	▲ 82
Particles >38µm		ASTM D7647	>10	3	1	2
Particles >71μm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/18/14	<u>△</u> 20/18/14	<u>△</u> 20/18/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.30	0.36	0.36



OIL ANALYSIS REPORT



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

F: (903)626-9772