

PROBLEM SUMMARY

Sample Rating Trend ISO



Machine Id CATERPILLAR D10T 15105050 (S/N CATOD10TCRJG01497) Component Hydraulic System Fluid ROYAL PURPLE SYNDRAULIC 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	NORMAL	ATTENTION				
Particles >4µm	ASTM D7647	>5000	<u> </u>	2696	9865				
Particles >6µm	ASTM D7647	>1300	🔺 1999	793	A 2216				
Particles >14µm	ASTM D7647	>160	<u> </u>	99	160				
Particles >21µm	ASTM D7647	>40	A 112	29	39				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	19/17/14	🔺 20/18/14				

Customer Id: NRGJEW Sample No.: RP0036210 Lab Number: 06027709 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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 Filter			?	We recommend you service the filters on this component.		

HISTORICAL DIAGNOSIS

NORMAL



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

view report

view report

21 Sep 2023 Diag: Don Baldridge

24 Oct 2023 Diag: Don Baldridge



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 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.

ISO

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.







OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id CATERPILLAR D10T 15105050 (S/N CATOD10TCRJG01497) Component Hydraulic System Fluid ROYAL PURPLE SYNDRAULIC 46 (--- GAL)

SAMPLE INFORMATION



DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. 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.

Sample Number		Client Info		RP0036210	RP0033489	RP0033739
Sample Date		Client Info		20 Nov 2023	24 Oct 2023	21 Sep 2023
Machine Age	hrs	Client Info		76064	75707	75411
Oil Age	hrs	Client Info		653	296	998
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>20	2	2	2
Chromium	nom	ASTM D5185m	>10	<u>د</u>	0	0
Nickel	nom	ASTM D5185m	>10	~1	0	0
Titanium	nom	ASTM D5185m	210	0	<1	<1
Silver	nom	ASTM D5185m		0	0	0
Aluminum	nnm	ASTM D5185m	>10	۰ ۲1	1	<1
	nom	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	45	41	70
Tin	ppm	ASTM D5185m	>10	45	~1	0
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Codmium	ppm	AGTM D5105m		0	-1	-1
	ppin	ASTIVI DSTOSIII		U	< 1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m	150	50	74	38
Phosphorus	ppm	ASTM D5185m	670	327	349	350
Zinc	ppm	ASTM D5185m	800	368	397	351
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	1	2
Sodium	ppm	ASTM D5185m		3	1	5
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.1	0.005	0.013	0.008
ppm Water	ppm	ASTM D6304	>1000	59	135.3	82.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> 6177</u>	2696	9865
Particles >6µm		ASTM D7647	>1300	🔺 1999	793	<u> </u>
Particles >14µm		ASTM D7647	>160	A 327	99	160
Particles >21µm		ASTM D7647	>40	<u> </u>	29	39
Particles >38µm		ASTM D7647	>10	2	1	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 20/18/16	19/17/14	▲ 20/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.34	0.40	0.30



OIL ANALYSIS REPORT

method

VISUAL







1000

600

4000

200

52

5

48

44

42

(40°(

Water (ppm)



limit/base

current

history1

history2

Bottom



Contact/Location: JURGEN THOMPSON - NRGJEW