

PROBLEM SUMMARY

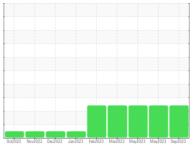
Sample Rating Trend

DIRT



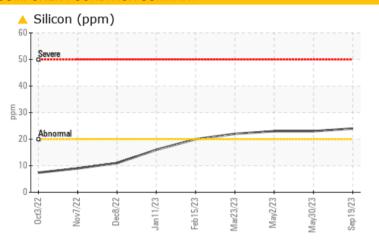
CATERPILLAR 374 10553 (S/N TNX10028)

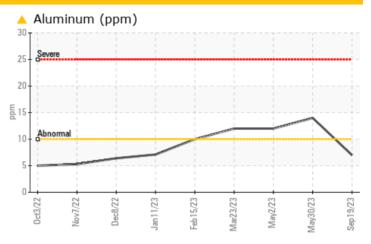
Hydraulic System NOT GIVEN (--- GAL)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL			
Aluminum	ppm	ASTM D5185m	>10	<u>^</u> 7	<u> </u>	<u>12</u>			
Silicon	nnm	ASTM D5185m	>20	A 24	A 23	A 23			

Customer Id: TRANEW Sample No.: WC0831306 Lab Number: 05965318 Test Package: CONST



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
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

30 May 2023 Diag: Don Baldridge



We advise that you check all areas where dirt can enter the system. 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.



02 May 2023 Diag: Jonathan Hester





We advise that you check all areas where dirt can enter the system. 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.

View report

23 Mar 2023 Diag: Doug Bogart

DIKT



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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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 acceptable for the time in service.



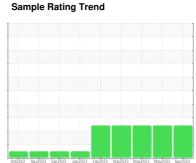


OIL ANALYSIS REPORT



CATERPILLAR 374 10553 (S/N TNX10028)

Hydraulic System NOT GIVEN (--- GAL)





DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. 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.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

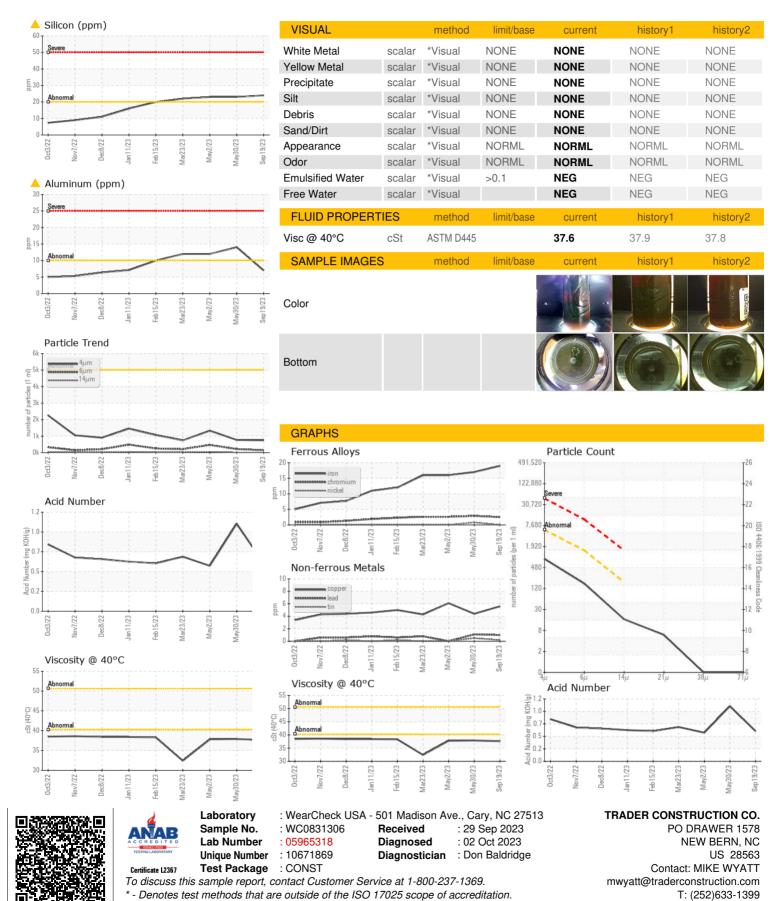
Fluid Condition

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

		Oct2022 No	2022 Dec2022 Jan2023			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0831306	WC0755210	WC0797731
Sample Date		Client Info		19 Sep 2023	30 May 2023	02 May 2023
Machine Age	hrs	Client Info		5561	4858	4361
Oil Age	hrs	Client Info		5561	4858	4361
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	19	17	16
Chromium	ppm	ASTM D5185m	>10	2	3	3
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<u>^</u> 7	<u>14</u>	△ 12
Lead	ppm	ASTM D5185m	>10	1	1	0
Copper	ppm	ASTM D5185m	>75	6	4	6
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	7	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		15	15	14
Calcium	ppm	ASTM D5185m		954	985	934
Phosphorus	ppm	ASTM D5185m		689	767	716
Zinc	ppm	ASTM D5185m		895	996	918
Sulfur	ppm	ASTM D5185m				
				2776	3180	3390
CONTAMINANTS	6	method	limit/base		3180 history1	3390 history2
	ppm	ASTM D5185m	limit/base >20			history2
Silicon				current	history1	history2
CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m		current	history1	history2
Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m	>20	current 24 12	history1 ▲ 23 10	history2 23 9
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	>20 >20 limit/base >5000	current ▲ 24 12 1 current 745	history1 ▲ 23 10 4 history1 767	history2 ▲ 23 9 1 history2 1333
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300	current	history1 ▲ 23 10 4 history1 767 217	history2 ▲ 23 9 1 history2 1333 465
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160	current 24 12 1 current 745 147	history1 ▲ 23 10 4 history1 767 217 13	history2 23 9 1 history2 1333 465 51
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160 >40	current	history1 ▲ 23 10 4 history1 767 217	history2 ▲ 23 9 1 history2 1333 465
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 see see	current 24 12 1 current 745 147 14 5 0	history1 23 10 4 history1 767 217 13 3 1	history2 23 9 1 history2 1333 465 51
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 see see	current 24 12 1 current 745 147 14 5	history1 23 10 4 history1 767 217 13 3	history2 23 9 1 history2 1333 465 51 15
Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 see see	current 24 12 1 current 745 147 14 5 0	history1 23 10 4 history1 767 217 13 3 1	history2 ▲ 23 9 1 history2 1333 465 51 15 0
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20	current 24 12 1 current 745 147 14 5 0 0	history1 23 10 4 history1 767 217 13 3 1	history2 23 9 1 history2 1333 465 51 15 0



OIL ANALYSIS REPORT



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

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