

OIL ANALYSIS REPORT

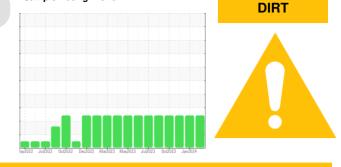
Sample Rating Trend



CATERPILLAR 374 8367 (S/N TMX00235)

Hydraulic System

TDH FLUID SAE 70W80 (--- GAL)



SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888114	WC0888225	WC0879381
Sample Date		Client Info		19 Mar 2024	30 Jan 2024	29 Nov 2023
Machine Age	hrs	Client Info		10523	9765	8996
Oil Age	hrs	Client Info		10523	9765	8996
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATIC	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	28	28	29
Chromium	ppm	ASTM D5185m	>10	2	3	3
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<mark> </mark> 14	1 5	1 6
Lead	ppm	ASTM D5185m	>10	0	2	<1
Copper	ppm	ASTM D5185m	>75	8	9	8
Tin	ppm	ASTM D5185m	>10	0	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	39	32	26
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	10	2	2	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	22	26	24
Calcium	ppm	ASTM D5185m	3500	1912	1635	1440
Phosphorus	ppm	ASTM D5185m	1150	875	860	792
Zinc	ppm	ASTM D5185m	1150	1048	1054	955
Sulfur	ppm	ASTM D5185m	5000	3555	3095	3001
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		A 28	A 30	A 33
Sodium	ppm	ASTM D5185m		17	19	19
Potassium	ppm	ASTM D5185m		0	2	1
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	865	772	481
Particles >6µm		ASTM D7647	>1300	243	260	161
Particles >14µm		ASTM D7647	>160	26	27	17
					0	<i>_</i>
		ASTM D7647	>40	6	6	5
		ASTM D7647 ASTM D7647		6 1	0	5
Particles >21µm Particles >38µm Particles >71µm			>10			

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.

🛑 Wear

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.

Report Id: TRANEW [WUSCAR] 06130550 (Generated: 03/30/2024 15:16:01) Rev: 1

Acid Number (AN) mg KOH/g ASTM D8045 2.25

ISO 4406 (c) >19/17/14

limit/base

method

Oil Cleanliness

FLUID DEGRADATION

1.06 1.10 1.03

history1

17/15/12

17/15/12

current

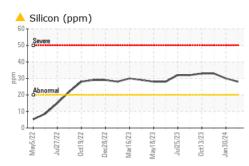
Contact/Location: MIKE WYATT - TRANEW

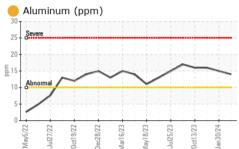
16/15/11

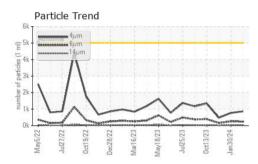
history2

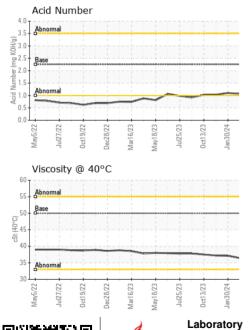


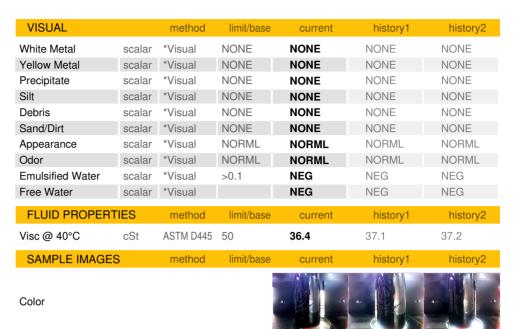
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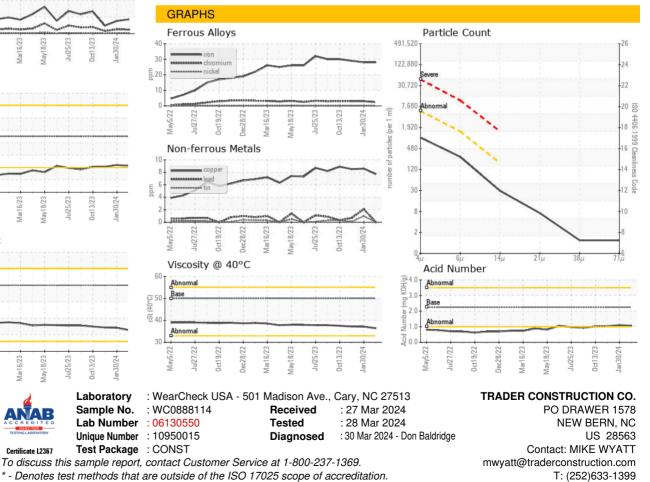








Bottom



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

Sample No.

Lab Number

Certificate L2367

Contact/Location: MIKE WYATT - TRANEW

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