

OIL ANALYSIS REPORT

Sample Rating Trend

limit/base



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

SAMPLE INFORMATION method

current

history1

history2

ISO

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

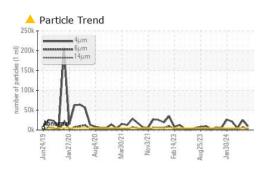
Fluid Condition

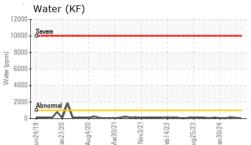
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

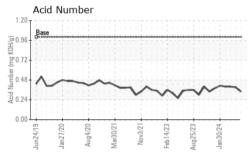
SAWFLE INFURI	NATION	method	iimi/base	current	nistory i	nistory2
Sample Number		Client Info		RP0040712	RP0036874	RP0036959
Sample Date		Client Info		18 Jun 2024	09 May 2024	12 Apr 2024
Machine Age	hrs	Client Info		77923	77687	77404
Oil Age	hrs	Client Info		519	283	956
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	0	2
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	22	16	18
Tin	ppm	ASTM D5185m	>10	0	<1	0
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		0	0	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m	150	29	33	87
Phosphorus	ppm	ASTM D5185m	670	342	353	342
Zinc	ppm	ASTM D5185m	800	423	412	421
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	<1	<1
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.1	0.005	0.009	0.015
ppm Water	ppm	ASTM D6304	>1000	59	95	160
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	9693	🔺 25479	4492
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 6999	784
Particles >14µm		ASTM D7647	>160	129	<u> </u>	33
Particles >21µm		ASTM D7647	>40	27	<u> </u>	9
Particles >38µm		ASTM D7647	>10	1	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 20/19/14	▲ 22/20/16	19/17/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.34	0.39	0.40

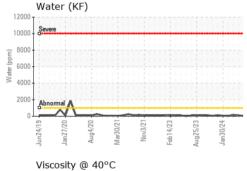


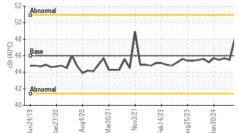
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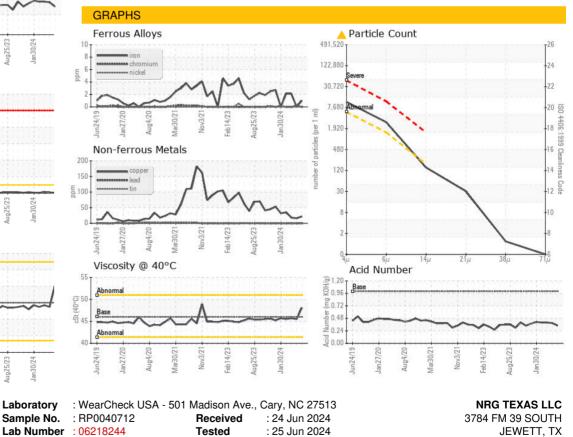




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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.0	48.1	45.5	45.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				. 6.	. 6	. 6

Bottom





Diagnosed : 26 Jun 2024 - Don Baldridge

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. JThompson@ecomaterial.com T: (903)626-9528 n rule (JCGM 106:2012) F: (903)626-9772

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

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Certificate 12367

Contact/Location: JURGEN THOMPSON - NRGJEW

US 75846

Contact: JURGEN THOMPSON