

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id CATERPILLAR D10T 15105049 (S/N CATOD10TCRJG01495) Component Hydraulic System Fluid ROYAL PURPLE SYNDRAULIC 46 (--- GAL)

(S/N CATOD10TCRJG01495) RAULIC 46 (--- GAL) SAMPLE INFORMATION method limit/base current



DIAGNOSIS	

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

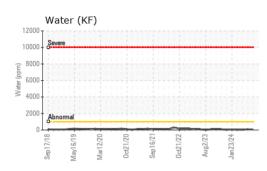
Fluid Condition

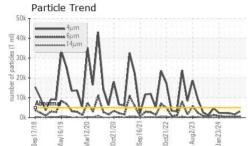
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

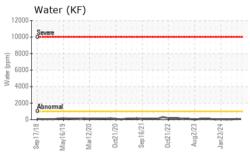
		method	iiiiii/base	current	nistory i	TIIStOLYZ
Sample Number		Client Info		RP0040783	RP0036964	RP0036994
Sample Date		Client Info		22 May 2024	22 Apr 2024	25 Mar 2024
Machine Age	hrs	Client Info		28263	27093	26857
Oil Age	hrs	Client Info		506	236	1168
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
		mathad	limit/base	ourroat	biotomut	biotory 0
WEAR METALS		method		current	history1	history2
Iron	ppm	ASTM D5185m	>20	5	2	8
Chromium	ppm	ASTM D5185m		0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	2
Lead	ppm	ASTM D5185m	>10	1	0	0
Copper	ppm	ASTM D5185m		21	19	38
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	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	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m	150	2	17	67
Phosphorus	ppm	ASTM D5185m	670	346	305	309
Zinc	ppm	ASTM D5185m	800	260	252	167
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	<1	2
Sodium	ppm	ASTM D5185m		<1	1	0
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304	>0.1	0.006	0.008	0.003
ppm Water	ppm	ASTM D6304	>1000	68	82	34
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3018	1611	2134
Particles >6µm		ASTM D7647	>1300	541	438	508
Particles >14µm		ASTM D7647	>160	35	22	35
Particles >21µm		ASTM D7647	>40	12	5	11
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	18/16/12	18/16/12
FLUID DEGRADA	TIO <u>N</u>	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.28	0.34	0.27
	iiiy K∪⊓/ŷ	AUTIVI DOU40	1.0	0.20	0.54	0.27

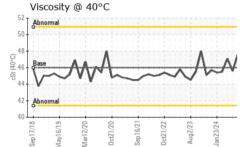


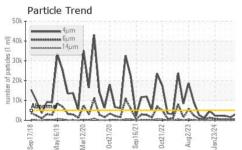
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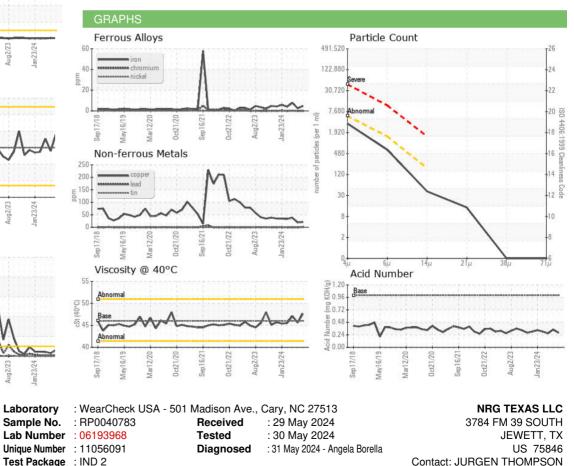








Bottom



Test Package : IND 2

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.

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

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Certificate 12367

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