

# **OIL ANALYSIS REPORT**

Sample Rating Trend

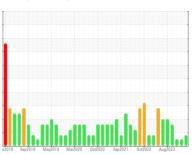
ISO



CATERPILLAR D10T 15105049 (S/N CATOD10TCRJG01495)

Component **Hydraulic System** 

**ROYAL PURPLE SYNDRAULIC 46 (--- GAL)** 





### Recommendation

Oil and filter change at the time of sampling has been noted. 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 moderate amount of silt (particulates < 14 microns in size) present in the oil.

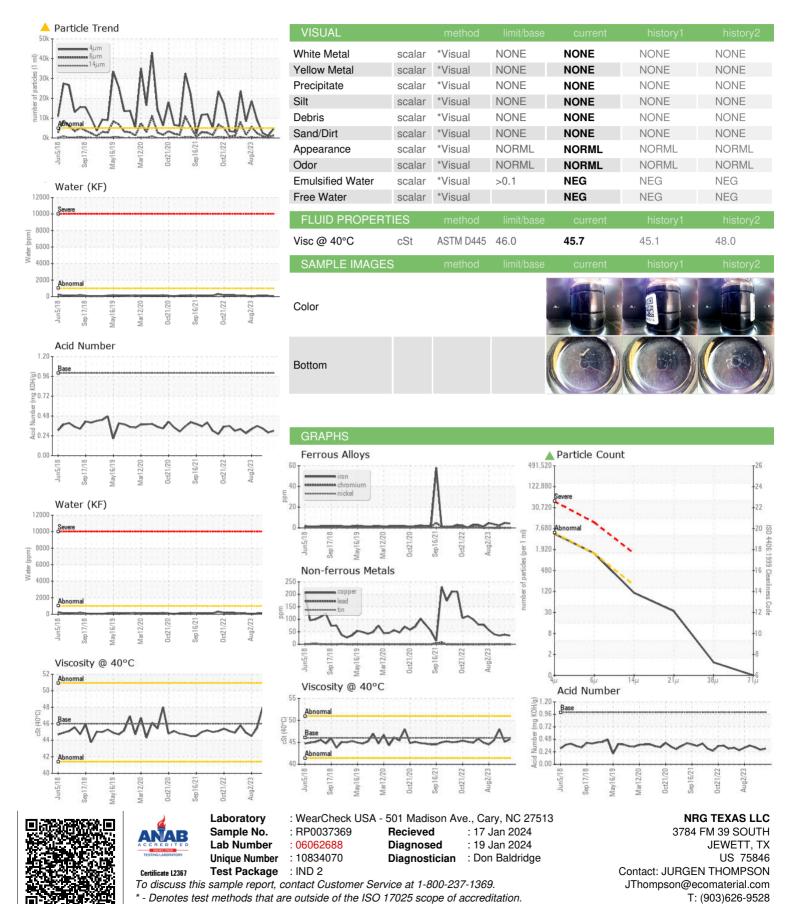
## **Fluid Condition**

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

DRAULIC 46 ( GAL)  ### DRAULIC 46 ( GAL)  ### DRAULIC 46 ( GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0037369	RP0036214	RP0036189
Sample Date		Client Info		04 Jan 2024	30 Nov 2023	31 Oct 2023
Machine Age	hrs	Client Info		25689	25419	25193
Oil Age	hrs	Client Info		999	729	503
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	5	2
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	35	38	35
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	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		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m	150	<1	9	15
Phosphorus	ppm	ASTM D5185m	670	370	321	344
Zinc	ppm	ASTM D5185m	800	261	292	320
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	2
Sodium	ppm	ASTM D5185m		0	4	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.1	0.003	0.007	0.011
ppm Water	ppm	ASTM D6304	>1000	30	74	110.1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4751	1113	2527
Particles >6µm		ASTM D7647	>1300	<b>1306</b>	335	820
Particles >14μm		ASTM D7647	>160	97	39	86
Particles >21μm		ASTM D7647	>40	29	15	31
Particles >38μm		ASTM D7647	>10	1	1	2
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>1</b> 9/18/14	17/16/12	19/17/14
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.30	0.28	0.33



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

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