

# **OIL ANALYSIS REPORT**

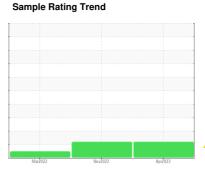


# GUAY SON [CONHER] CATERPILLAR CHUYITO XXVIII - IBACO

Component

**Transmission (Manual)** 

Transmission (Manual) Oil (60 LTR)





### **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

Moderate concentration of visible metal present. All component wear rates are normal.

#### Contamination

No other contaminants were detected in the fluid.

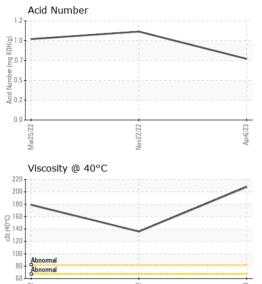
### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0011398	KL0011272	KL0009166
Sample Date		Client Info		06 Apr 2023	22 Nov 2022	25 Mar 2022
Machine Age	hrs	Client Info		14970	13719	1511
Oil Age	hrs	Client Info		399	649	1511
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4	2	4
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>7	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	1	<1
Lead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m	>225	5	12	7
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		8	10	99
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	2	28
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		19	14	121
Calcium	ppm	ASTM D5185m		3605	3077	3095
Phosphorus	ppm	ASTM D5185m		983	930	947
Zinc	ppm	ASTM D5185m		896	857	782
Sulfur	ppm	ASTM D5185m		5852	4846	4074
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	14	7	5
Sodium	ppm	ASTM D5185m		<1	1	3
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647				14739
Particles >6µm		ASTM D7647	>2500			1708
Particles >14µm		ASTM D7647	>320			58
Particles >21µm		ASTM D7647	>80			9
Particles >38µm		ASTM D7647	>20			0
Particles >71μm		ASTM D7647	>4			0
Oil Cleanliness		ISO 4406 (c)	>18/15			18/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.74	1.07	0.98

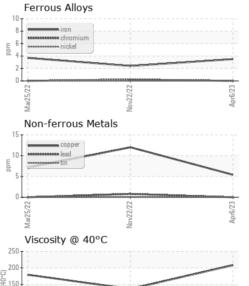


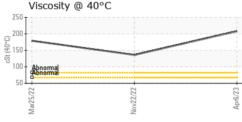
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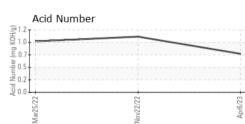


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	▲ MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	ΓIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		208	136	179
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						













Laboratory Sample No. Lab Number Unique Number : 10428962

: 05820879

: KL0011398

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 14 Apr 2023 : 18 Apr 2023

Diagnostician : Don Baldridge

Test Package : MOB 2 ( Additional Tests: PrtCount ) 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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Submitted By: EDUARDO GARCIA