

# **OIL ANALYSIS REPORT**

## **Sample Rating Trend**





# CATERPILLAR 980H LOADER 6821 (S/N JMS06208)

Component

Poor Loft Final F

Rear Left Final Drive

TULCO LUBSOIL TO-4 50 (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

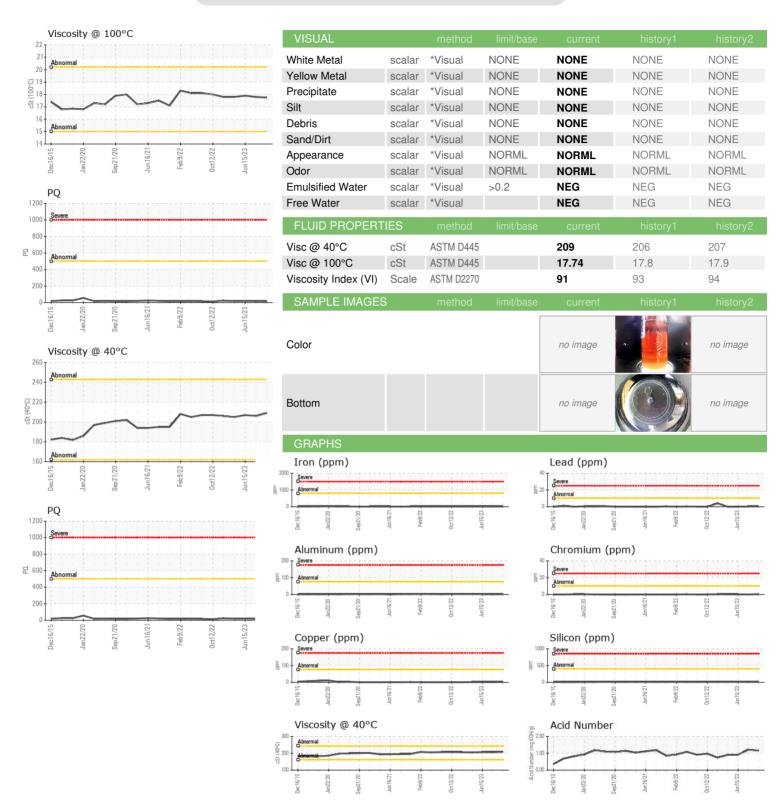
## **Fluid Condition**

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

6/2015 Jan/2020 Sup/2020 Jun/2021 Feld/2022 Oct/2022 Jun/2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002864	TO10002464	TO10002351
Sample Date		Client Info		13 Nov 2023	28 Aug 2023	15 Jun 2023
Machine Age	hrs	Client Info		28310	27775	27269
Oil Age	hrs	Client Info		4444	249	3660
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water	IN	WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>500	17	19	21
Iron	ppm	ASTM D5185m	>800	10	7	16
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	2	2	3
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	1	<1	<1
Tin	ppm	ASTM D5185m	>8	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<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		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	17	21
Calcium	ppm	ASTM D5185m		3431	3619	4753
Phosphorus	ppm	ASTM D5185m		813	909	854
Zinc	ppm	ASTM D5185m		1124	1178	1073
Sulfur	ppm	ASTM D5185m		4403	5654	6188
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	16	13	17
Sodium	ppm	ASTM D5185m		5	4	4
Potassium	ppm	ASTM D5185m	>20	0	1	0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.16	1.21	0.91



# OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: TO10002864 : 06011561 : 10750705

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

: 17 Nov 2023 : 29 Nov 2023 Diagnostician : Jonathan Hester

Test Package : MOB 2 ( Additional Tests: KV100, PQ, VI ) 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)

**ANCHOR STONE TULSA ROCK** 

TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE

TULSA, OK US 74137

Contact: MIKE SNYDER msnyder@anchorstoneco.com

T: (417)850-9635 F: