

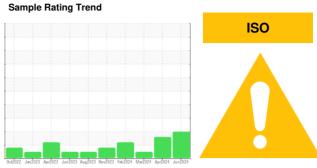
# **OIL ANALYSIS REPORT**



Machine Id CATERPILLAR 980M 6141 (S/N KRS00885)

Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (75 GAL)



## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil.

### **Fluid Condition**

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

YDRAULIC HZ 46 (	, o o, t_,			023 NovŽ023 Feb2024 Marž024 Aprá		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10003643	TO10002043	TO10003374
Sample Date		Client Info		15 Jun 2024	08 Apr 2024	04 Mar 2024
Machine Age	hrs	Client Info		13913	13425	13158
Oil Age	hrs	Client Info		1737	1249	982
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	2	3
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	3	2
Tin	ppm	ASTM D5185m	>20	0	0	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	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		183	146	152
Calcium	ppm	ASTM D5185m		516	429	453
Phosphorus	ppm	ASTM D5185m		841	675	740
Zinc	ppm	ASTM D5185m		1015	774	800
Sulfur	ppm	ASTM D5185m		3585	2760	3054
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		5	5	4
Potassium	ppm	ASTM D5185m	>20	3	0	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<b>25440</b>	△ 25224	3164
Particles >6μm		ASTM D7647	>1300	<u> </u>	<u>^</u> 7266	192
Particles >14µm		ASTM D7647	>160	<b>^</b> 569	<u>▲</u> 162	11
Particles >21µm		ASTM D7647	>40	<u> </u>	12	3
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/20/16</u>	<u>22/20/15</u>	19/15/11
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.13	0.77	0.72



# OIL ANALYSIS REPORT







Laboratory Sample No.

: TO10003643 Lab Number : 06216290 Unique Number: 11089154

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

Diagnosed

: 20 Jun 2024 : 25 Jun 2024 : 25 Jun 2024 - Jonathan Hester

**ANCHOR STONE TULSA ROCK** TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE TULSA, OK US 74137

Test Package : MOB 2 ( Additional Tests: KF, KV100, VI ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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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