

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



# COLGATE 3

Component

**Hydraulic System** 

**TULCO LUBSOIL SUPER HYDRAULIC AW 46 (4 GAL)** 

# DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

## **Fluid Condition**

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

46 (4 GAL)				Oct2022		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO20000180		
Sample Date		Client Info		11 Oct 2022		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		3704		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	0		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		100		
Calcium	ppm	ASTM D5185m		72		
Phosphorus	ppm	ASTM D5185m	450	318		
Zinc	ppm	ASTM D5185m	540	390		
Sulfur	ppm	ASTM D5185m	1825	2283		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.05	0.006		
ppm Water	ppm	ASTM D6304	>500	63.6		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	656		
Particles >6µm		ASTM D7647	>1300	47		
Particles >14µm		ASTM D7647	>1600	5		
Particles >21μm		ASTM D7647	>40	2		
Particles >38μm		ASTM D7647	>10	0		
Particles >71μm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/13/10		
On Oleanillicas		100 1400 (6)	/10/11/14	17/13/10		

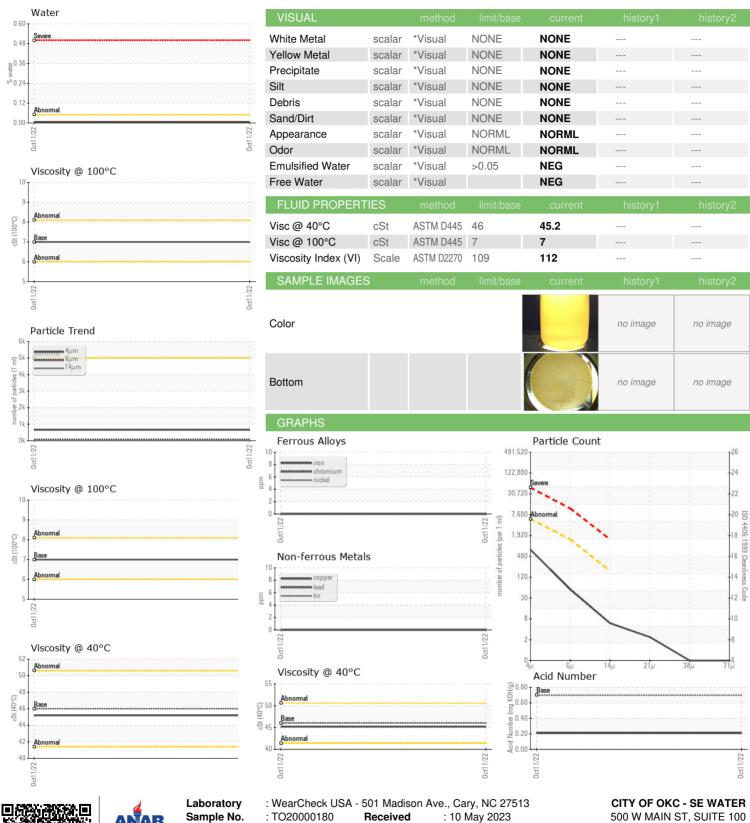
Acid Number (AN)

mg KOH/g ASTM D8045 .7

0.21



## **OIL ANALYSIS REPORT**







Certificate L2367

Sample No. Lab Number **Unique Number** 

: 05843971 : 10468078

: TO20000180

Received Diagnosed

: 10 Aug 2023 Diagnostician : Wes Davis

Test Package : IND 2 (Additional Tests: KF, KV100, 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)

500 W MAIN ST, SUITE 100

OKLAHOMA CITY, OK US 73102

Contact: MITCHEL LOGAN

T:

F: