

OIL ANALYSIS REPORT









Machine Id CATERPILLAR 12H GRADER 6438 TRANSMISSION PLUS (S/N 8MN00572) Component **Differential**

Fluid
TULCO LUBSOIL TO-4 30 (

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

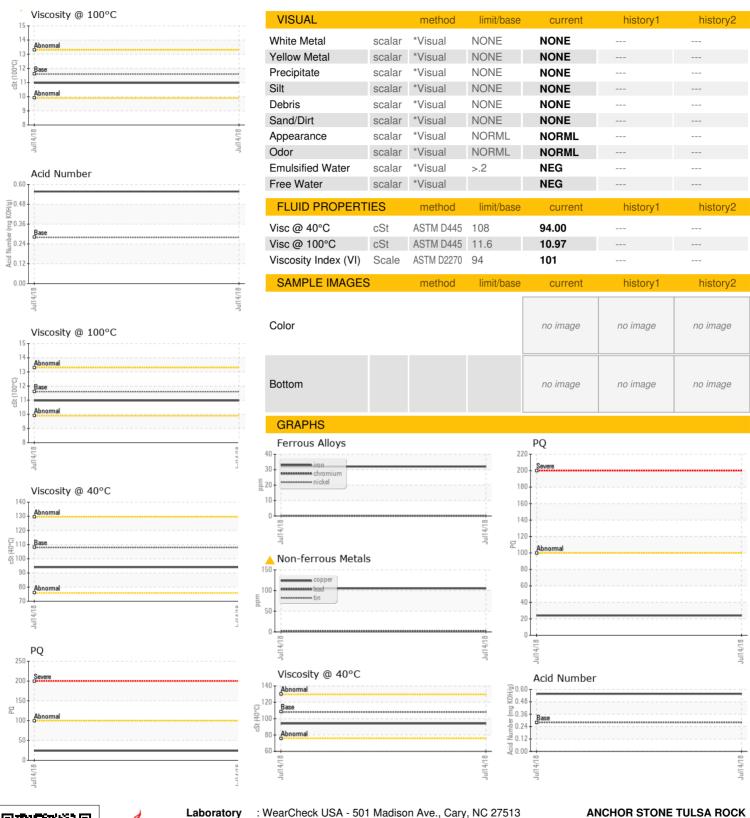
Fluid Condition

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

				Jul2018		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO1006382		
Sample Date		Client Info		14 Jul 2018		
Machine Age	hrs	Client Info		13328		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		24		
ron	ppm	ASTM D5185m	>500	32		
Chromium	ppm	ASTM D5185m	>3	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Γitanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>30	22		
ead	ppm	ASTM D5185m	>13	1		
Copper	ppm	ASTM D5185m	>103	105		
- Tin	ppm	ASTM D5185m	>5	0		
Antimony	ppm	ASTM D5185m		0		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8		
Barium	ppm	ASTM D5185m		<1		
Nolybdenum	ppm	ASTM D5185m		3		
Manganese	ppm	ASTM D5185m		<1		
//agnesium	ppm	ASTM D5185m	9	16		
Calcium	ppm	ASTM D5185m	4500	3665		
Phosphorus	ppm	ASTM D5185m	1150	855		
Zinc	ppm	ASTM D5185m	1250	978		
Sulfur	ppm	ASTM D5185m	4500	3974		
CONTAMINANTS	3	method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>100	11		
Silicon	ρριιι					
	ppm	ASTM D5185m		5		
Sodium		ASTM D5185m ASTM D5185m	>20	5 0		
Silicon Sodium Potassium FLUID DEGRAD <i>!</i>	ppm		>20 limit/base			



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Laboratory Sample No.

: TO1006382 Lab Number : 04517432

Unique Number: 8276261

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jul 2018

Tested : 26 Jul 2018 Diagnosed

: 26 Jul 2018 - Don Baldridge

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

Test Package : IND 2 (Additional Tests: KV100, PQ, 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.

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Contact: MIKE SNYDER

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: ANCTUL [WUSCAR] 04517432 (Generated: 05/30/2024 12:01:27) Rev: 1

Contact/Location: MIKE SNYDER - ANCTUL