

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

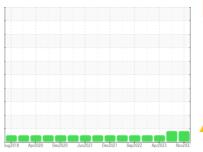


CATERPILLAR 420 FST BACKHOE 6010 (S/N SKR04232)

Component

Rear Differential

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002854	TO10002407	TO10002182
Sample Date		Client Info		14 Nov 2023	25 Jul 2023	18 Apr 2023
Machine Age	hrs	Client Info		12883	12310	11802
Oil Age	hrs	Client Info		1594	1271	763
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		25	23	27
Iron	ppm	ASTM D5185m	>500	27	22	25
Chromium	ppm	ASTM D5185m	>3	0	<1	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	3	2
Lead	ppm	ASTM D5185m	>13	0	0	0
Copper	ppm	ASTM D5185m	>103	2	2	<1
Tin	ppm	ASTM D5185m	>5	<1	<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		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		10	4	18
Calcium	ppm	ASTM D5185m		2959	3139	3136
Phosphorus	ppm	ASTM D5185m		871	886	913
Zinc	ppm	ASTM D5185m		1046	1114	1182
Sulfur	ppm	ASTM D5185m		4036	5135	5204
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	31	27	30
Sodium	ppm	ASTM D5185m		5	6	5
Potassium	ppm	ASTM D5185m	>20	0	1	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.95	1.10	1.25



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO10002854 : 06013419

Diagnosed : 10752563

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnostician : Don Baldridge : MOB 2 (Additional Tests: KV100, PQ, VI)

Received

: 20 Nov 2023

: 23 Nov 2023

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.

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: