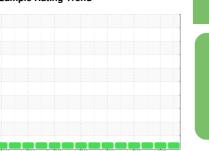


# **OIL ANALYSIS REPORT**

## **Sample Rating Trend**







CATERPILLAR 420 FST BACKHOE 6010 (S/N SKR04232)

Component

Front Differential

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.

50 ( GAL)		Aug2018 A	pr2020 Dec2020 Jul	2021 Apr2022 Jan2023	Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002855	TO10002405	TO10002178
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				NORMAL	NORMAL	NORMAL
CONTAMINATIC	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		39	46	30
Iron	ppm	ASTM D5185m	>500	46	83	51
Chromium	ppm	ASTM D5185m	>3	<1	<1	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	9	20	9
Lead	ppm	ASTM D5185m	>13	<1	<1	0
Copper	ppm	ASTM D5185m	>103	<1	2	0
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	2	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m		20	27	26
Calcium	ppm	ASTM D5185m		3532	3961	3473
Phosphorus	ppm	ASTM D5185m		974	1021	909
Zinc	ppm	ASTM D5185m		1181	1287	1181
Sulfur	ppm	ASTM D5185m		4857	6370	5282
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	47	90	50
Sodium	ppm	ASTM D5185m		4	6	4
Potassium	ppm	ASTM D5185m	>20	2	7	0
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

1.06

Acid Number (AN)

mg KOH/g ASTM D8045

1.27

1.24



# **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package

: TO10002855 : 06013420 : 10752564

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Nov 2023 Diagnosed : 21 Nov 2023

Diagnostician : Wes Davis : 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)

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