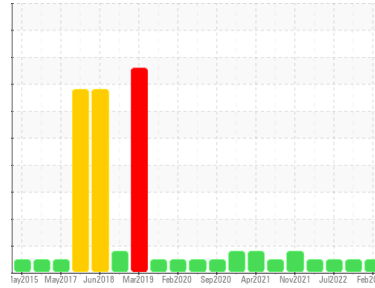


# OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

✓



Machine Id  
**CATERPILLAR 775F HAUL TRUCK 6835 (S/N DLS00972)**  
Component  
**Transmission (Manual)**  
Fluid  
**TULCO LUBSOIL TO-4 30 (--- 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 fluid.

**Fluid Condition**  
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO10001772</b>	TO10001495	TO10001044
Sample Date	Client Info		<b>06 Feb 2023</b>	27 Oct 2022	13 Jul 2022
Machine Age	hrs	Client Info	<b>24889</b>	24405	23946
Oil Age	hrs	Client Info	<b>484</b>	1014	555
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
PQ	ASTM D8184	>95	<b>13</b>	13	19	
Iron	ppm	ASTM D5185m	>200	<b>10</b>	8	7
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	2	2
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>45	<b>16</b>	22	20
Copper	ppm	ASTM D5185m	>225	<b>33</b>	45	45
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>0</b>	<1	10
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	9	<b>11</b>	19	16
Calcium	ppm	ASTM D5185m	4500	<b>3141</b>	3283	3415
Phosphorus	ppm	ASTM D5185m	1150	<b>871</b>	956	968
Zinc	ppm	ASTM D5185m	1250	<b>1076</b>	1207	1207
Sulfur	ppm	ASTM D5185m	4500	<b>4880</b>	5329	5430

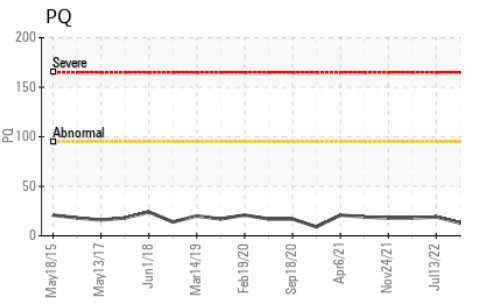
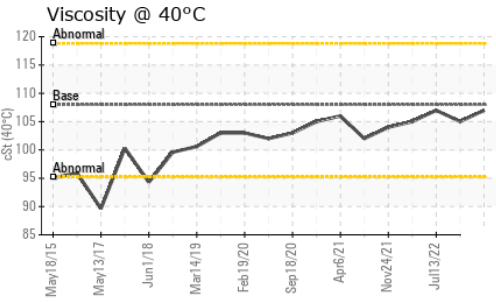
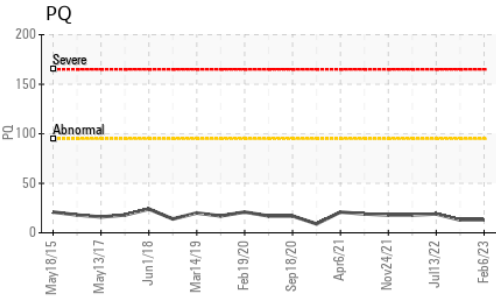
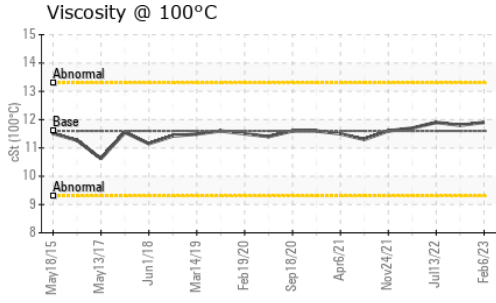
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>125	<b>11</b>	13	13
Sodium	ppm	ASTM D5185m		<b>4</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.28	<b>0.979</b>	0.97	0.94

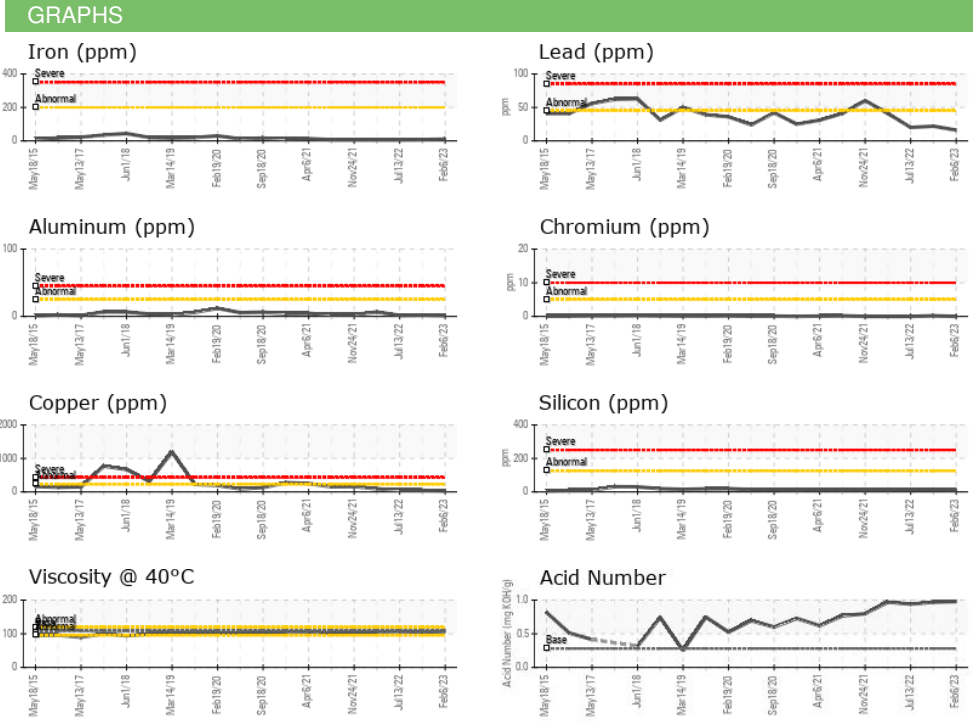
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	108	107	107
Visc @ 100°C	cSt	ASTM D445	11.6	11.9	11.8
Viscosity Index (VI)	Scale	ASTM D2270	94	99	100

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10001772 **Recieved** : 13 Feb 2023  
**Lab Number** : 05766017 **Diagnosed** : 14 Feb 2023  
**Unique Number** : 10335625 **Diagnostician** : Wes Davis  
**Test Package** : 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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