



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**CATERPILLAR 349F 6115 (S/N HPD00640)**  
 Component  
**Rear Right Final Drive**  
 Fluid  
**TULCO LUBSOIL TO-4 50 (4 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO10003683</b>	TO10002993	TO10001567
Sample Date		Client Info		<b>22 Jun 2024</b>	18 Dec 2023	30 Mar 2023
Machine Age	hrs	Client Info		<b>8055</b>	7585	7109
Oil Age	hrs	Client Info		<b>1462</b>	992	516
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>None</b>	None	None
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184	>500	<b>561</b>	258	140
Iron	ppm	ASTM D5185m	>800	<b>573</b>	271	129
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>75	<b>22</b>	14	6
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>8	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

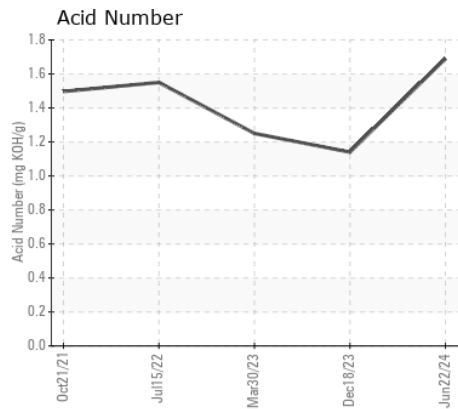
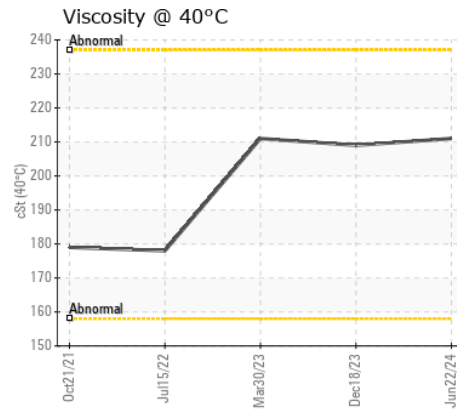
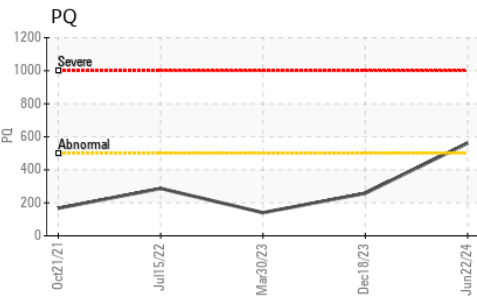
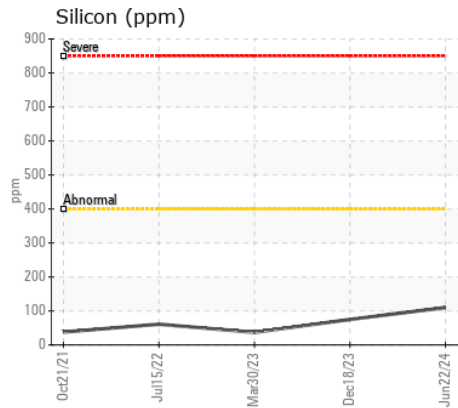
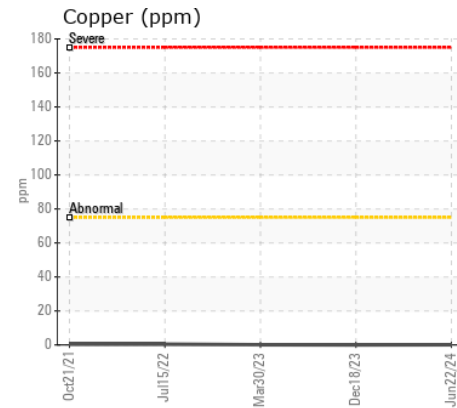
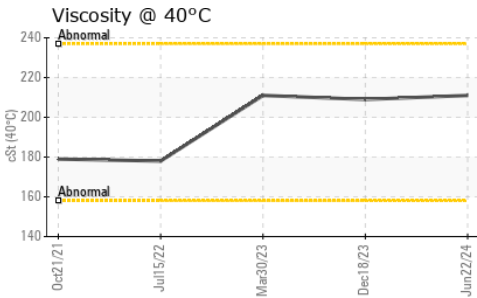
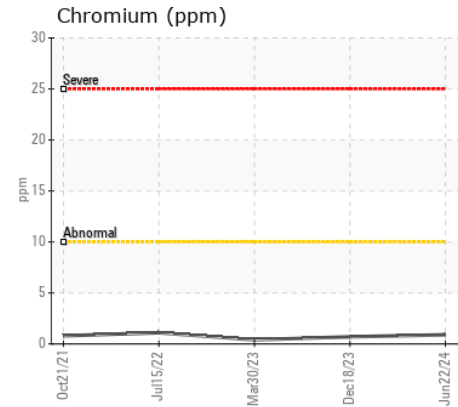
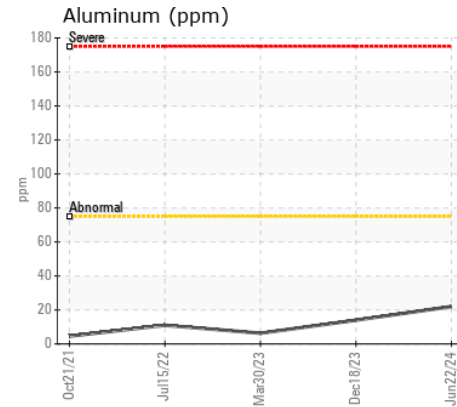
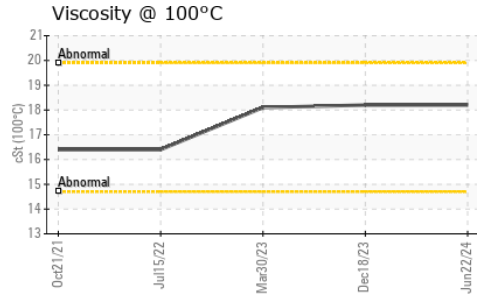
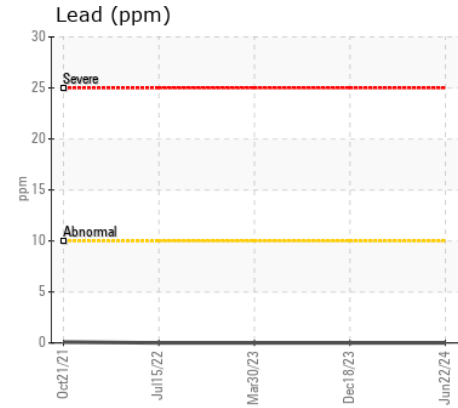
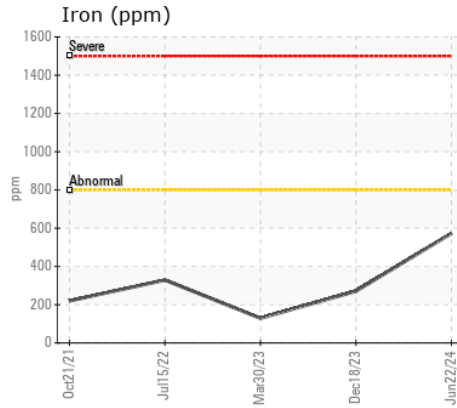
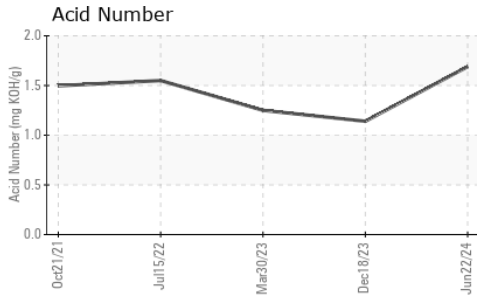
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	<b>110</b>	75	37
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	3	3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	0.2%	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>7</b>	3	3
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	2	1
Magnesium	ppm	ASTM D5185m		<b>18</b>	15	11
Calcium	ppm	ASTM D5185m		<b>3213</b>	3129	3085
Phosphorus	ppm	ASTM D5185m		<b>957</b>	928	910
Zinc	ppm	ASTM D5185m		<b>1106</b>	1169	1146
Sulfur	ppm	ASTM D5185m		<b>5431</b>	4854	4747
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.69</b>	1.14	1.25
Visc @ 40°C	cSt	ASTM D445		<b>211</b>	209	211
Visc @ 100°C	cSt	ASTM D445		<b>18.2</b>	18.2	18.1
Viscosity Index (VI)	Scale	ASTM D2270		<b>94</b>	95	93



Certificate L2367

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

Sample No. : TO10003683

Lab Number : 06225304

Unique Number : 11103501

Test Package : MOB 2 ( Additional Tests: KV100, PQ, VI )

Received : 01 Jul 2024

Tested : 03 Jul 2024

Diagnosed : 03 Jul 2024 - Jonathan Hester

**ANCHOR STONE TULSA ROCK**

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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)