



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id **CATERPILLAR 730 6080 (S/N TFF00703)**

Component **Hydraulic System**

Fluid **TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (40 GAL)**

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO10002717</b>	TO10002189	TO10001504
Sample Date		Client Info		<b>21 Sep 2023</b>	05 Apr 2023	05 Oct 2022
Machine Age	hrs	Client Info		<b>9710</b>	9213	8703
Oil Age	hrs	Client Info		<b>3044</b>	2549	2039
Filter Age	hrs	Client Info		<b>495</b>	510	531
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m	>75	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
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

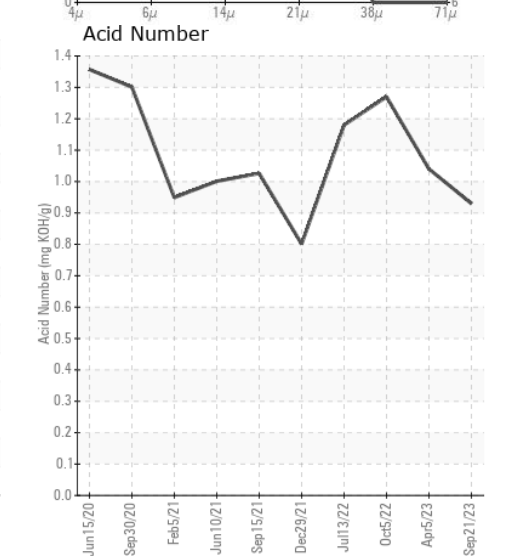
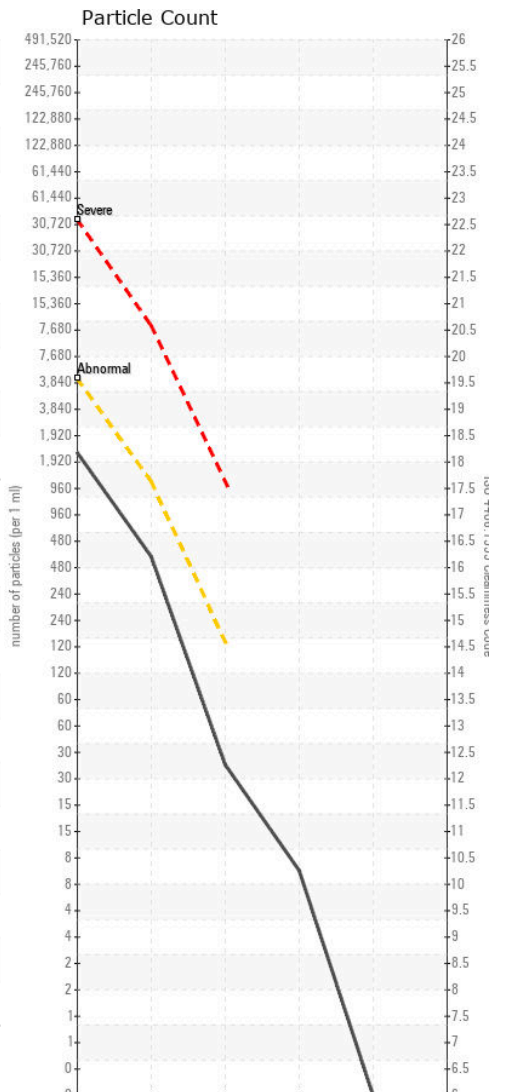
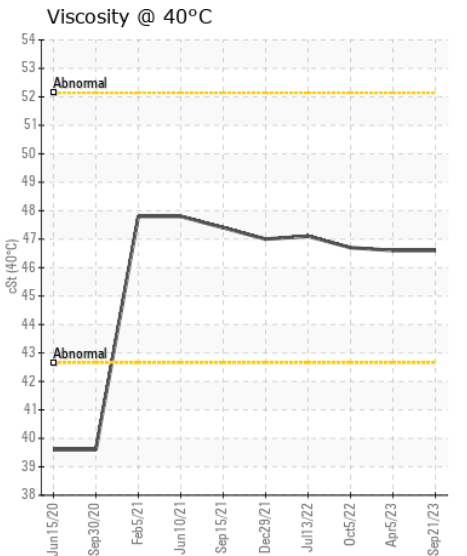
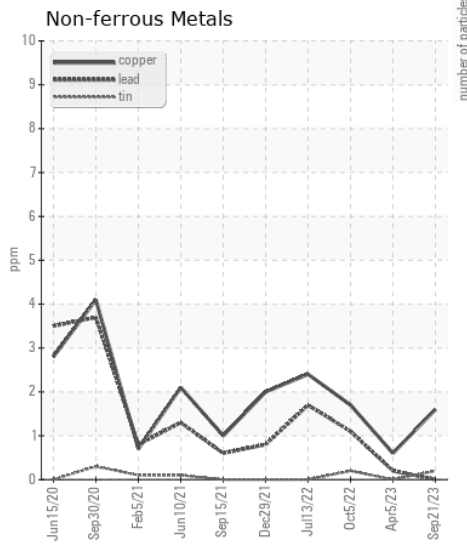
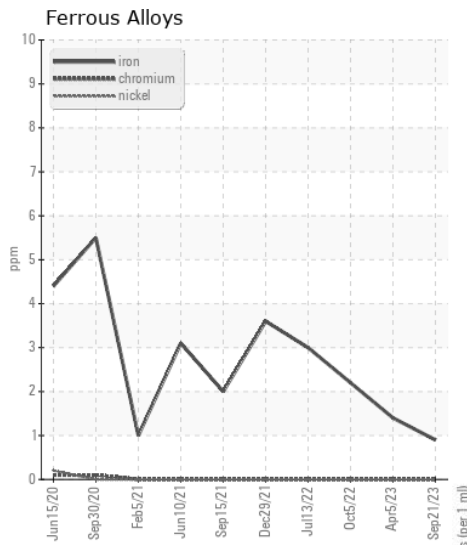
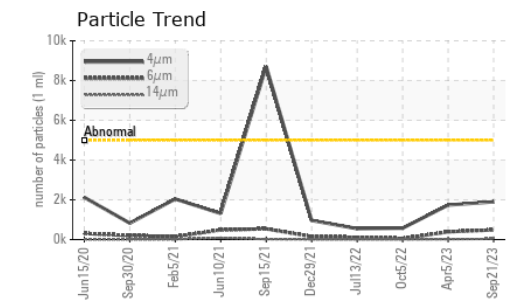
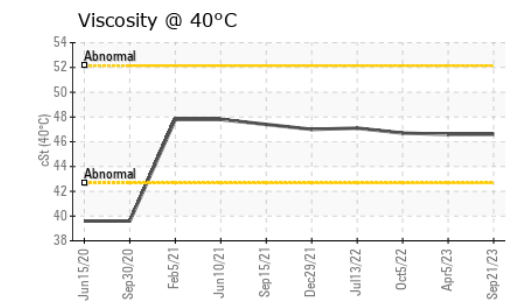
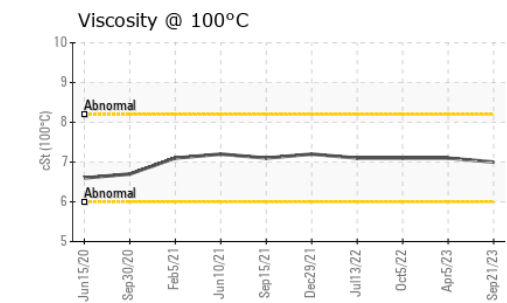
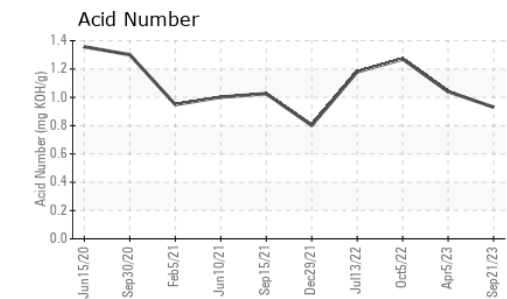
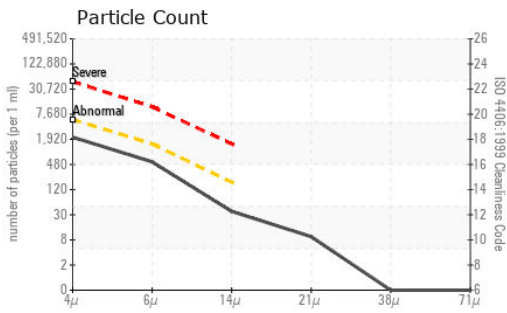
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>1</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	0
Water	%	ASTM D6304	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>1897</b>	1738	575
Particles >6µm		ASTM D7647	>1300	<b>487</b>	392	52
Particles >14µm		ASTM D7647	>160	<b>32</b>	19	10
Particles >21µm		ASTM D7647	>40	<b>8</b>	5	4
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/16/12</b>	18/16/11	16/13/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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	>0.1	<b>NEG</b>	NEG	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>6</b>	2	1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>213</b>	165	101
Calcium	ppm	ASTM D5185m		<b>200</b>	175	142
Phosphorus	ppm	ASTM D5185m		<b>746</b>	733	973
Zinc	ppm	ASTM D5185m		<b>934</b>	939	1258
Sulfur	ppm	ASTM D5185m		<b>3481</b>	2927	4463
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.93</b>	1.04	1.27
Visc @ 40°C	cSt	ASTM D445		<b>46.6</b>	46.6	46.7
Visc @ 100°C	cSt	ASTM D445		<b>7</b>	7.1	7.1
Viscosity Index (VI)	Scale	ASTM D2270		<b>107</b>	110	110



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10002717  
**Lab Number** : 05960592  
**Unique Number** : 10661805  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, VI )

**ANCHOR STONE TULSA ROCK**  
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 US 74137  
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 F:

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)