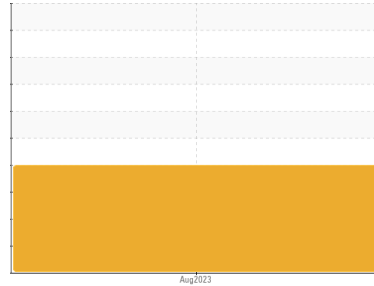


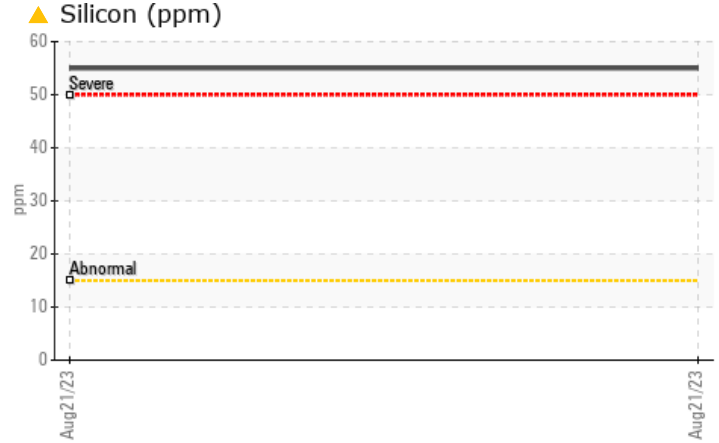
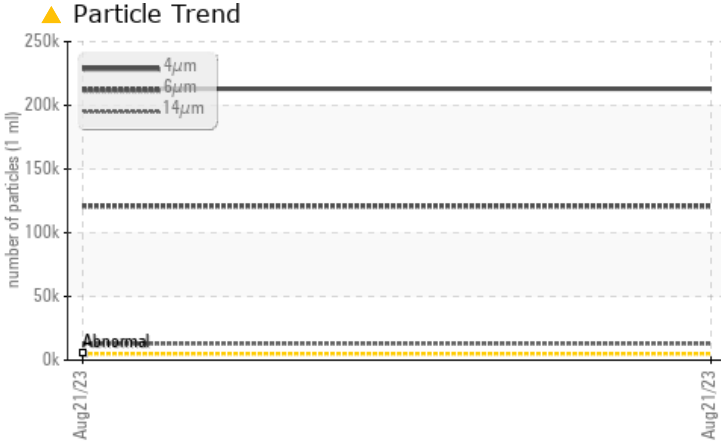
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
CURL CYLINDER 2 - MCELROY
Component
Hydraulic System
Fluid
LUBSOIL MCELROY FUSION 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Silicon	ppm	ASTM D5185m	>15	▲ 55	---	---
Particles >4µm		ASTM D7647	>5000	▲ 212978	---	---
Particles >6µm		ASTM D7647	>1300	▲ 120957	---	---
Particles >14µm		ASTM D7647	>160	▲ 12879	---	---
Particles >21µm		ASTM D7647	>40	▲ 2748	---	---
Particles >38µm		ASTM D7647	>10	▲ 32	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 25/24/21	---	---

Customer Id: UCTULTUL
Sample No.: TO10001954
Lab Number: 05932799
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



Machine Id
CURL CYLINDER 2 - MCELROY
 Component
Hydraulic System
 Fluid
LUBSOIL MCELROY FUSION 46 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		TO10001954	---	---
Sample Date	Client Info		21 Aug 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	9	---	---
Chromium	ppm	ASTM D5185m >20	0	---	---
Nickel	ppm	ASTM D5185m >20	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >20	<1	---	---
Lead	ppm	ASTM D5185m >20	0	---	---
Copper	ppm	ASTM D5185m >20	1	---	---
Tin	ppm	ASTM D5185m >20	0	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

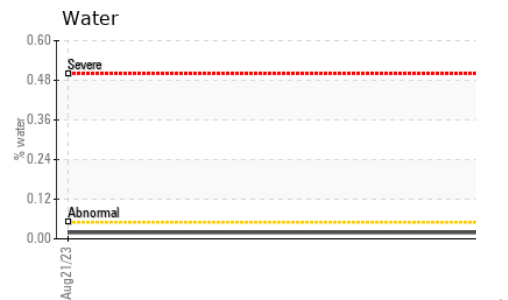
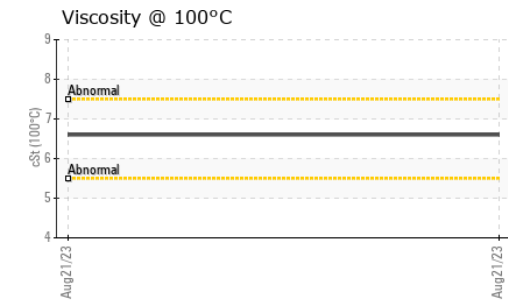
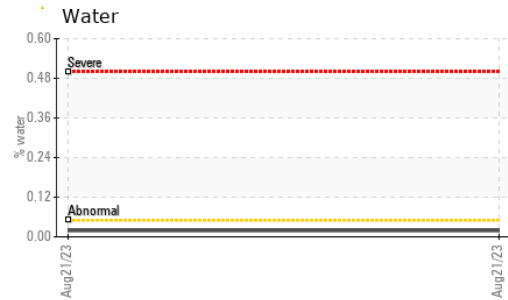
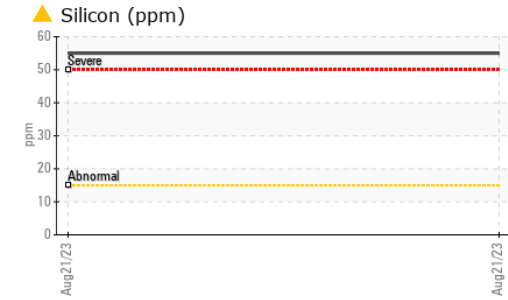
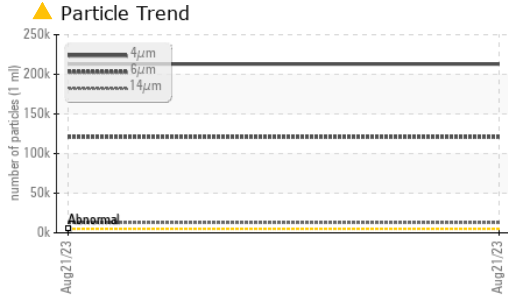
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	---	---
Barium	ppm	ASTM D5185m	75	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	0	---	---
Calcium	ppm	ASTM D5185m	2	---	---
Phosphorus	ppm	ASTM D5185m	131	---	---
Zinc	ppm	ASTM D5185m	77	---	---
Sulfur	ppm	ASTM D5185m	1296	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	▲ 55	---	---
Sodium	ppm	ASTM D5185m	82	---	---
Potassium	ppm	ASTM D5185m >20	1	---	---
Water	%	ASTM D6304 >0.05	0.019	---	---
ppm Water	ppm	ASTM D6304 >500	195.1	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 212978	---	---
Particles >6µm	ASTM D7647	>1300	▲ 120957	---	---
Particles >14µm	ASTM D7647	>160	▲ 12879	---	---
Particles >21µm	ASTM D7647	>40	▲ 2748	---	---
Particles >38µm	ASTM D7647	>10	▲ 32	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 25/24/21	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.11	---	---

OIL ANALYSIS REPORT



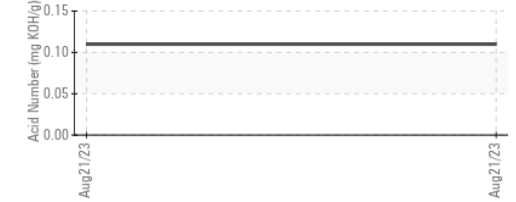
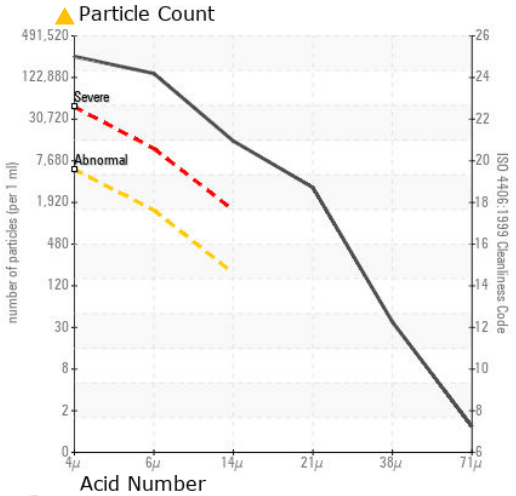
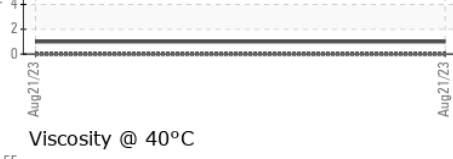
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	40.3	---	---
Visc @ 100°C	cSt	ASTM D445	6.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270	116	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10001954 **Received** : 23 Aug 2023
Lab Number : 05932799 **Diagnosed** : 24 Aug 2023
Unique Number : 10618070 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

TULCO OILS INC (001-TULSA DIVISION)
 5240 EAST PINE
 TULSA, OK
 US 74115
 Contact: DYLAN COPE
 dylancope@tulco.com
 T: (800)375-2347
 F: x:

Certificate L2367
 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)