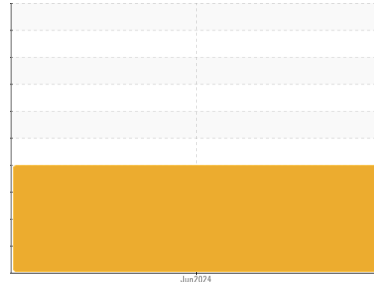


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
MTS F23
 Component
Hydraulic System
 Fluid
BIO FLO HDFU 46 (55 GAL)

DIAGNOSIS

- Recommendation**
 We recommend you service the filters on this component. We recommend an early resample to monitor this condition.
- Wear**
 The lead level is abnormal. The iron level is abnormal.
- Contamination**
 There is a high amount of particulates present in the oil.
- 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		TO60002691	---	---
Sample Date	Client Info		06 Jun 2024	---	---
Machine Age	hrs	Client Info	4000	---	---
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	▲ 34	---	---
Chromium	ppm	ASTM D5185m >20	<1	---	---
Nickel	ppm	ASTM D5185m >20	0	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >20	2	---	---
Lead	ppm	ASTM D5185m >20	▲ 136	---	---
Copper	ppm	ASTM D5185m >20	13	---	---
Tin	ppm	ASTM D5185m >20	<1	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	0	---	---
Magnesium	ppm	ASTM D5185m	5	---	---
Calcium	ppm	ASTM D5185m	144	---	---
Phosphorus	ppm	ASTM D5185m	387	---	---
Zinc	ppm	ASTM D5185m	681	---	---
Sulfur	ppm	ASTM D5185m	3834	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	3	---	---
Sodium	ppm	ASTM D5185m	1	---	---
Potassium	ppm	ASTM D5185m >20	2	---	---
Water	%	ASTM D6304 >0.05	0.033	---	---
ppm Water	ppm	ASTM D6304 >500	338	---	---

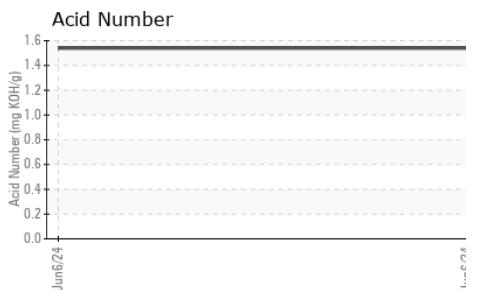
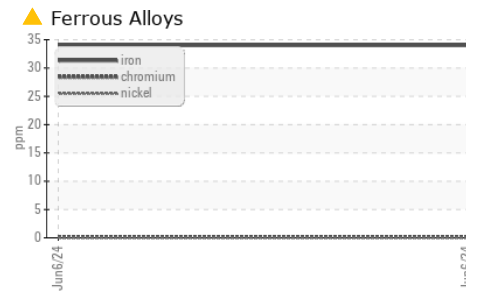
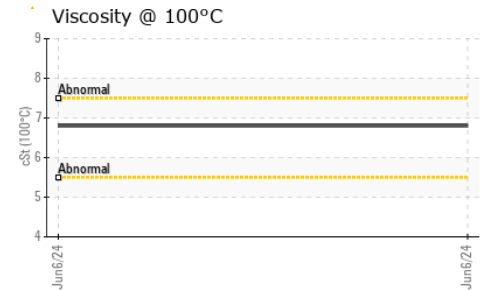
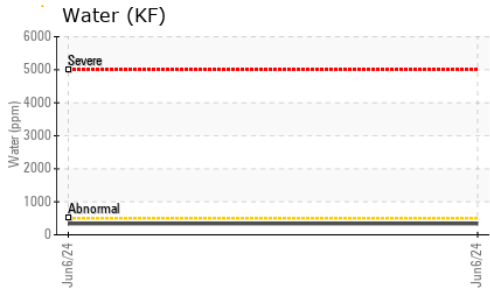
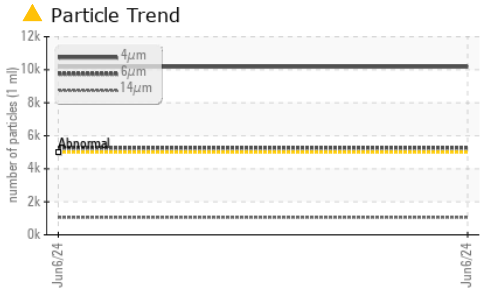
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 10174	---	---
Particles >6µm	ASTM D7647	>1300	▲ 5265	---	---
Particles >14µm	ASTM D7647	>160	▲ 1057	---	---
Particles >21µm	ASTM D7647	>40	▲ 343	---	---
Particles >38µm	ASTM D7647	>10	▲ 11	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/20/17	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.54	---	---

OIL ANALYSIS REPORT

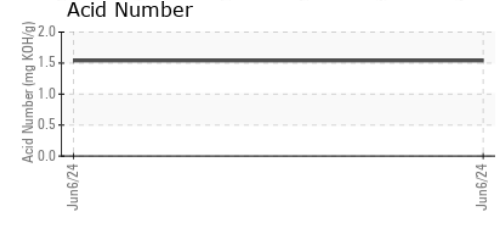
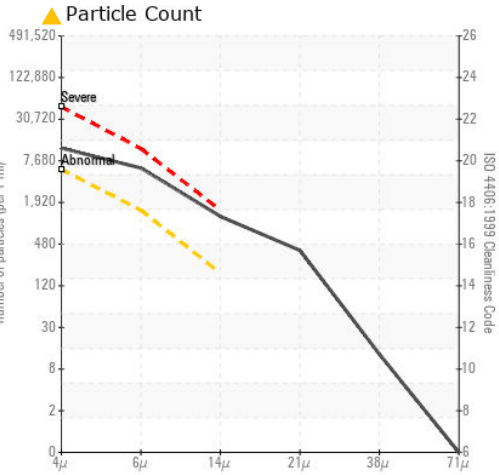
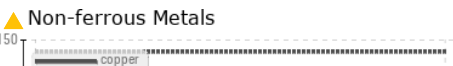


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	43.5	---	---
Visc @ 100°C	cSt	ASTM D445	6.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270	111	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002691 **Received** : 12 Jun 2024
Lab Number : 06207788 **Tested** : 13 Jun 2024
Unique Number : 11075249 **Diagnosed** : 14 Jun 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

DICKSON TESTING CO INC
 11126 PALMER AVE
 SOUTH GATE, CA
 US 90280
 Contact: JESUS ZAVALA
 jesus.zavala@dicksontesting.com

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)