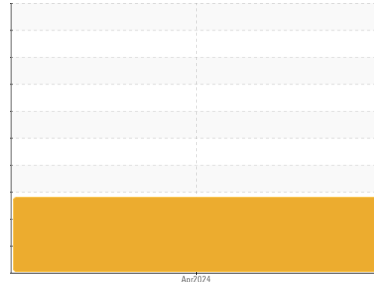


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
F3
Component
Hydraulic System
Fluid
BIO FLO HDFU 46 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	TO60002536	---	---
Sample Date	Client Info	06 Apr 2024	---	---
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	15	---	---
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	0	---	---
Lead ppm ASTM D5185m	>20	0	---	---
Copper ppm ASTM D5185m	>20	<1	---	---
Tin ppm ASTM D5185m	>20	0	---	---
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		<1	---	---
Calcium ppm ASTM D5185m		1	---	---
Phosphorus ppm ASTM D5185m		185	---	---
Zinc ppm ASTM D5185m		75	---	---
Sulfur ppm ASTM D5185m		1581	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	2	---	---
Sodium ppm ASTM D5185m		0	---	---
Potassium ppm ASTM D5185m	>20	0	---	---
Water % ASTM D6304	>0.05	▲ 0.062	---	---
ppm Water ppm ASTM D6304	>500	▲ 628	---	---

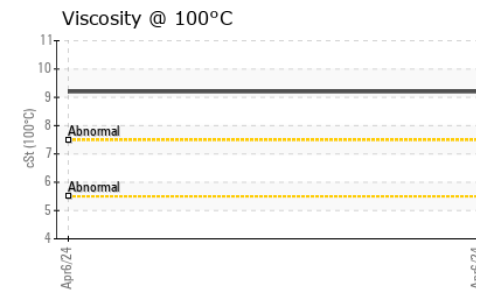
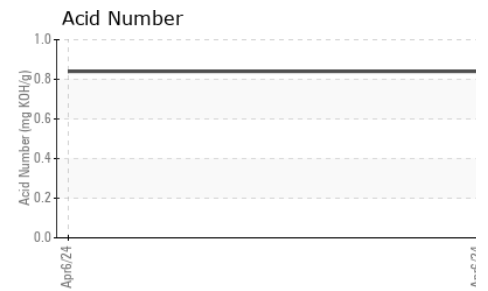
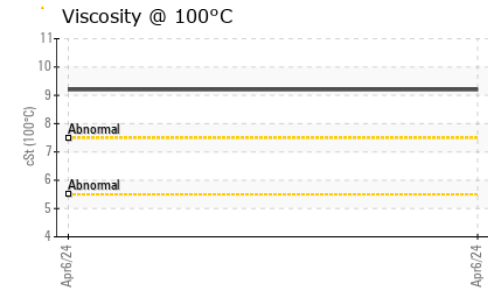
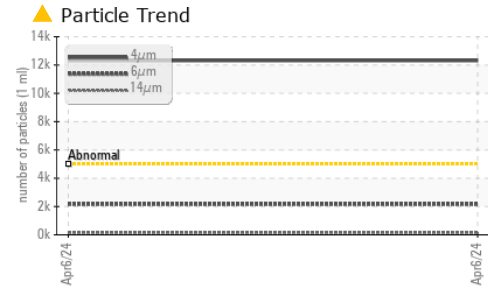
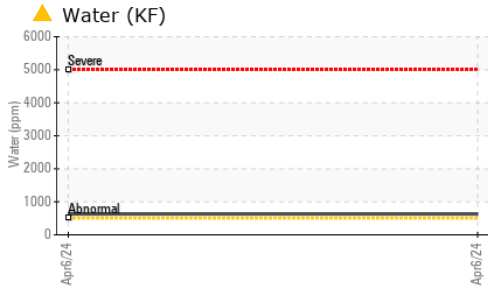
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	▲ 12311	---	---
Particles >6µm ASTM D7647	>1300	● 2169	---	---
Particles >14µm ASTM D7647	>160	150	---	---
Particles >21µm ASTM D7647	>40	32	---	---
Particles >38µm ASTM D7647	>10	2	---	---
Particles >71µm ASTM D7647	>3	1	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 21/18/14	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		0.84	---	---

OIL ANALYSIS REPORT



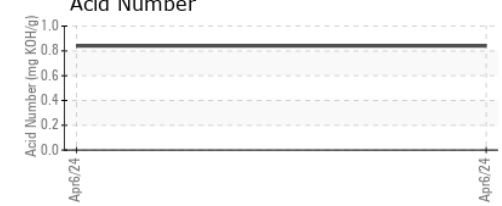
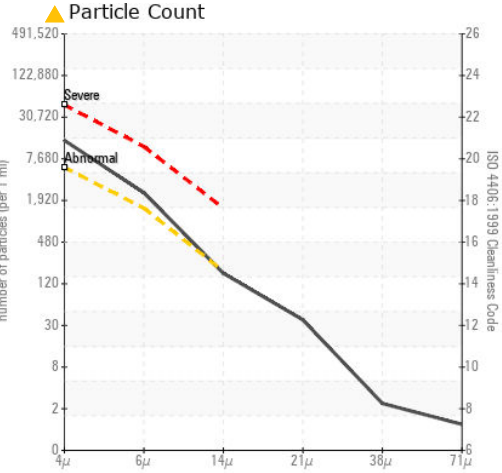
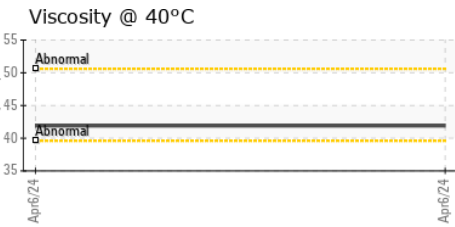
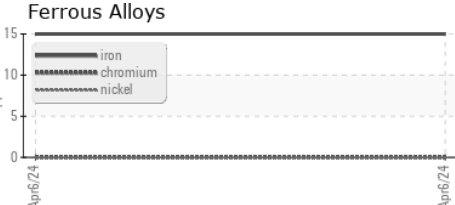
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	41.9	---	---
Visc @ 100°C	cSt	ASTM D445	9.2	---	---
Viscosity Index (VI)	Scale	ASTM D2270	210	---	---

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. : TO60002536 **Received** : 11 Jun 2024
Lab Number : **06207082** **Tested** : 13 Jun 2024
Unique Number : 11074543 **Diagnosed** : 13 Jun 2024 - Angela Borella
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)