

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
F1
 Component
Hydraulic System
 Fluid
BIO FLO HDFU 46 (--- GAL)

DIAGNOSIS

- Recommendation**
 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 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	TO60002535	---	---
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	0	---	---
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	2	---	---
Tin ppm ASTM D5185m	>20	0	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		<1	---	---

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		34	---	---
Phosphorus ppm ASTM D5185m		254	---	---
Zinc ppm ASTM D5185m		254	---	---
Sulfur ppm ASTM D5185m		1548	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	1	---	---
Sodium ppm ASTM D5185m		1	---	---
Potassium ppm ASTM D5185m	>20	0	---	---
Water % ASTM D6304	>0.05	0.010	---	---
ppm Water ppm ASTM D6304	>500	106	---	---

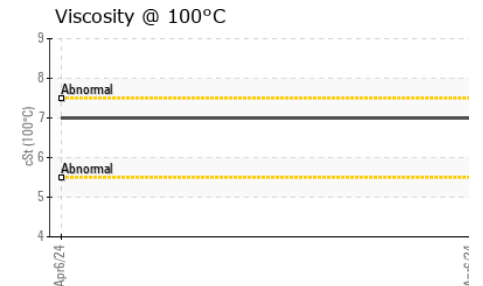
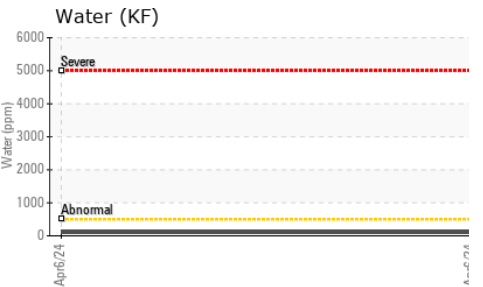
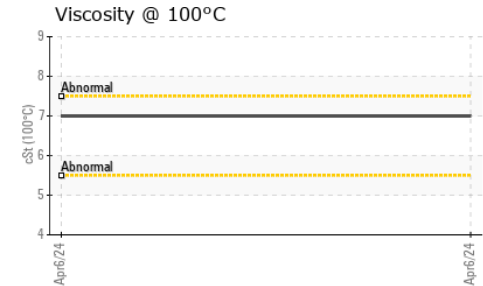
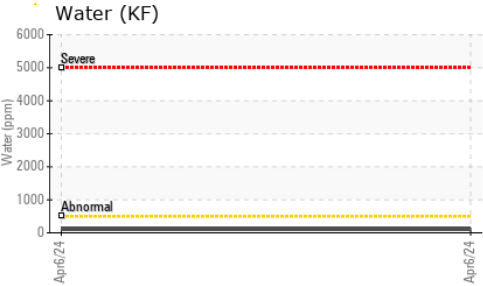
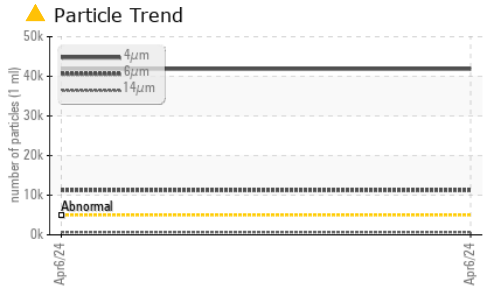
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	▲ 41863	---	---
Particles >6µm ASTM D7647	>1300	▲ 11242	---	---
Particles >14µm ASTM D7647	>160	▲ 667	---	---
Particles >21µm ASTM D7647	>40	▲ 133	---	---
Particles >38µm ASTM D7647	>10	3	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 23/21/17	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		0.37	---	---

OIL ANALYSIS REPORT



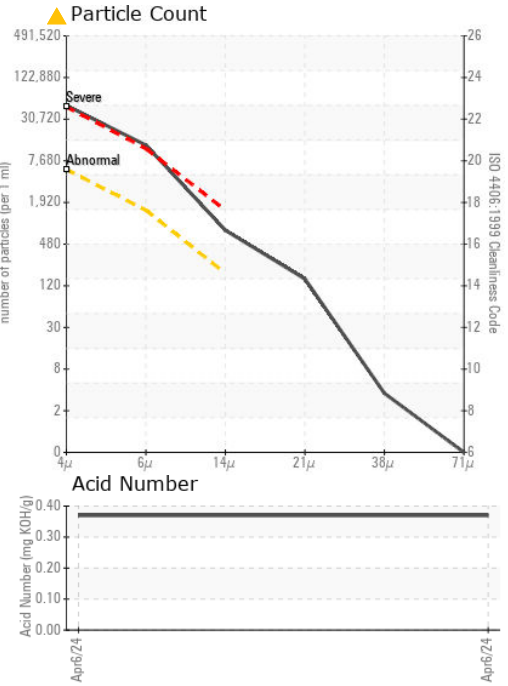
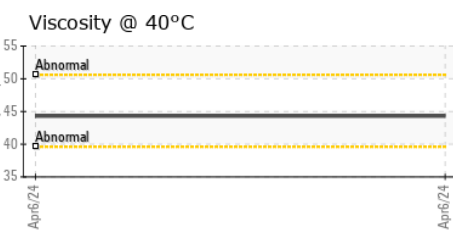
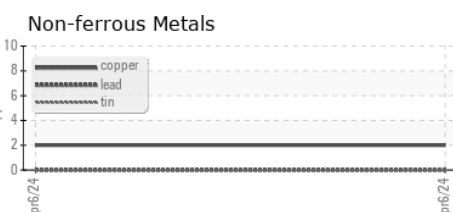
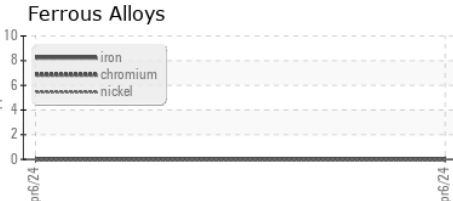
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	LIGHT	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	44.3	---	---
Visc @ 100°C	cSt	ASTM D445	7.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270	116	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002535 **Received** : 11 Jun 2024
Lab Number : 06207080 **Tested** : 13 Jun 2024
Unique Number : 11074541 **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@dicksonesting.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)