OIL ANALYSIS REPORT

Machine Id
EX0301
Component
Hydraulic System
Fluid
IRVING TO 10 (--- GAL)

Sample Rating Trend

ISO

DIAGNOSIS

Recommendation
The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0094020**	---	---
Sample Date		Client Info		**04 Dec 2023**	---	---
Machine Age	kms	Client Info		**6340**	---	---
Oil Age	kms	Client Info		**500**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>0.05	**NEG**	---	---

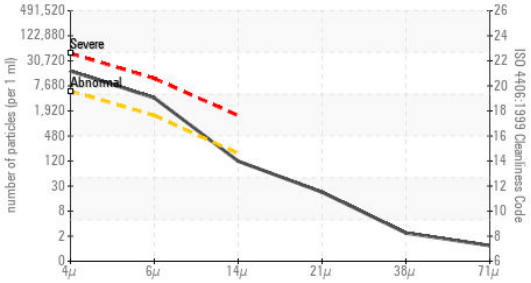
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	---	---
Iron	ppm	ASTM D5185(m)	>20	**31**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**3**	---	---
Nickel	ppm	ASTM D5185(m)	>20	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**4**	---	---
Lead	ppm	ASTM D5185(m)	>20	**3**	---	---
Copper	ppm	ASTM D5185(m)	>20	**8**	---	---
Tin	ppm	ASTM D5185(m)	>20	**0**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**13**	---	---
Barium	ppm	ASTM D5185(m)		**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)		**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**8**	---	---
Calcium	ppm	ASTM D5185(m)		**1705**	---	---
Phosphorus	ppm	ASTM D5185(m)		**830**	---	---
Zinc	ppm	ASTM D5185(m)		**774**	---	---
Sulfur	ppm	ASTM D5185(m)		**3854**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

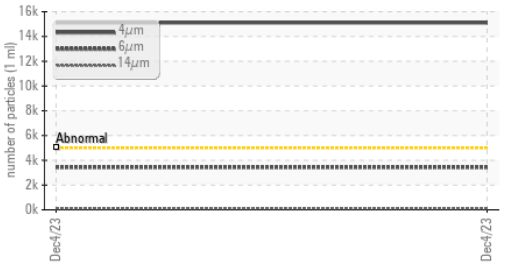
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**7**	---	---
Sodium	ppm	ASTM D5185(m)		**5**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**4**	---	---

OIL ANALYSIS REPORT

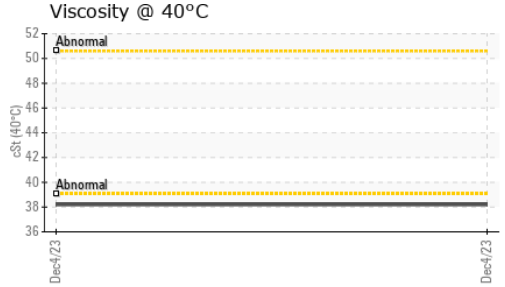
Particle Count



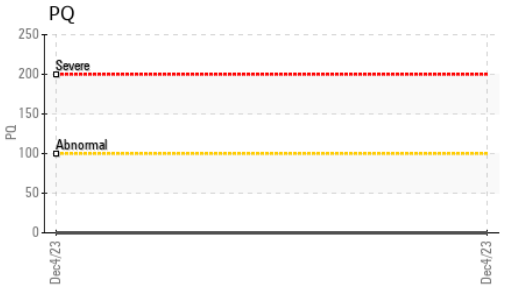
Particle Trend



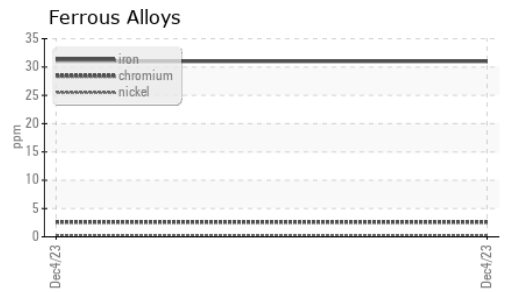
Viscosity @ 40°C



PQ



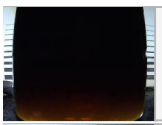
Ferrous Alloys



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ **15107**	---	---
Particles >6µm	ASTM D7647	>1300	▲ **3437**	---	---
Particles >14µm	ASTM D7647	>160	**105**	---	---
Particles >21µm	ASTM D7647	>40	**19**	---	---
Particles >38µm	ASTM D7647	>10	**2**	---	---
Particles >71µm	ASTM D7647	>3	**1**	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ **21/19/14**	---	---

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 D7279(m)		**38.2**	---	---

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

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0094020
Lab Number : 02601884
Unique Number : 5694969
Test Package : MOB 1 (Additional Tests: PQ, PrtCount)

Received : 08 Dec 2023
Diagnosed : 11 Dec 2023
Diagnostician : Kevin Marson

GFL Environmental - 968 - Boylston
151 Waste Management Road Hiwy 16
Boylston, NS
CA B0H 1G0
Contact: Bruce Avery
bruce.avery@gflenv.com
T:
F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.