



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
901115

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high 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	GFL0084027	GFL0020578	---
Sample Date	Client Info	03 Aug 2023	07 Sep 2021	---
Machine Age	hrs	3323	0	---
Oil Age	hrs	1200	0	---
Oil Changed	Client Info	Changed	Not Chngd	---
Sample Status		SEVERE	SEVERE	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >20	7	9	---
Chromium	ppm	ASTM D5185(m) >10	0	0	---
Nickel	ppm	ASTM D5185(m) >10	0	<1	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m)	0	<1	---
Aluminum	ppm	ASTM D5185(m) >10	<1	2	---
Lead	ppm	ASTM D5185(m) >10	<1	<1	---
Copper	ppm	ASTM D5185(m) >75	4	3	---
Tin	ppm	ASTM D5185(m) >10	0	0	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 5	1	2	---
Barium	ppm	ASTM D5185(m) 5	0	0	---
Molybdenum	ppm	ASTM D5185(m) 5	<1	1	---
Manganese	ppm	ASTM D5185(m)	0	0	---
Magnesium	ppm	ASTM D5185(m) 25	8	12	---
Calcium	ppm	ASTM D5185(m) 200	75	94	---
Phosphorus	ppm	ASTM D5185(m) 300	358	351	---
Zinc	ppm	ASTM D5185(m) 370	421	409	---
Sulfur	ppm	ASTM D5185(m) 2500	775	777	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

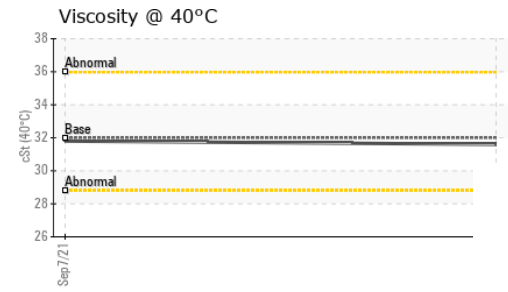
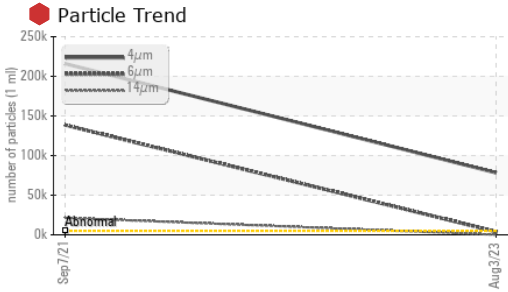
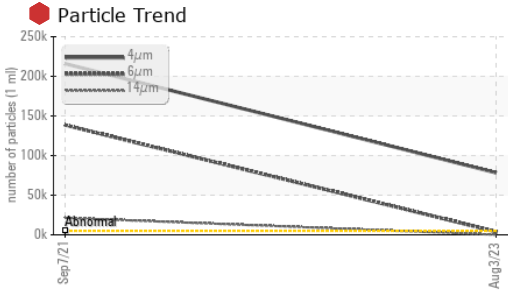
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >20	<1	6	---
Sodium	ppm	ASTM D5185(m)	<1	<1	---
Potassium	ppm	ASTM D5185(m) >20	<1	1	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	78294	216007	---
Particles >6µm	ASTM D7647 >1300	3931	138542	---
Particles >14µm	ASTM D7647 >160	81	21412	---
Particles >21µm	ASTM D7647 >40	27	6319	---
Particles >38µm	ASTM D7647 >10	5	747	---
Particles >71µm	ASTM D7647 >3	1	96	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	23/19/14	25/24/22	---



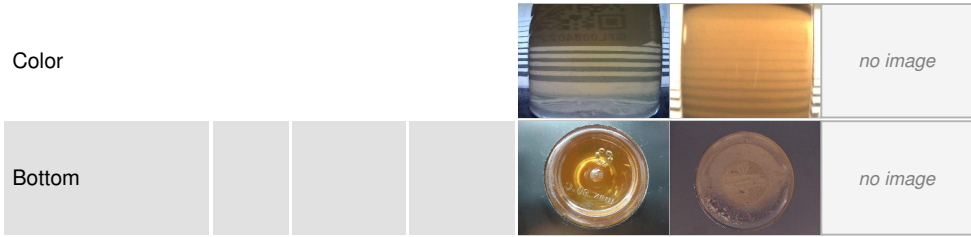
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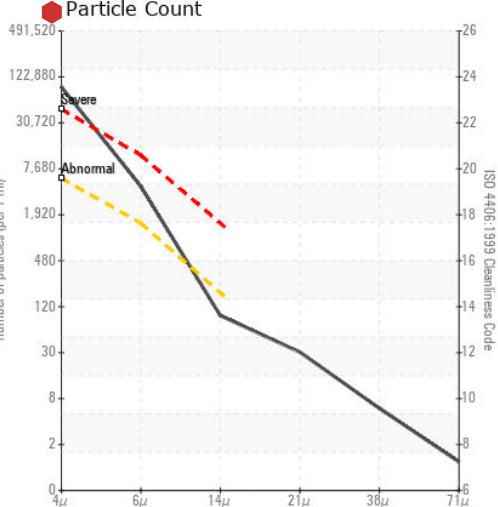
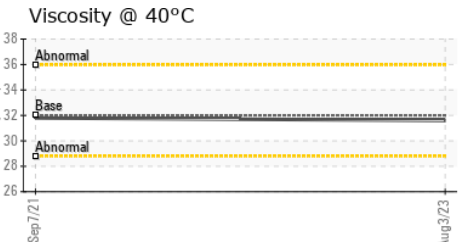
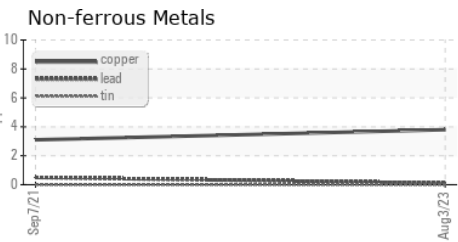
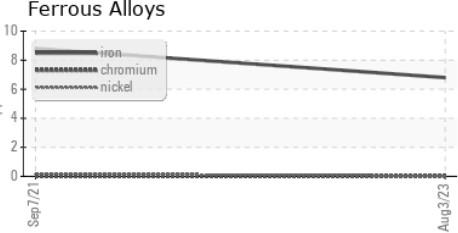
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	LIGHT
Sand/Dirt	scalar	Visual*	NONE	NONE	LIGHT
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32	31.6	31.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 573 - Vancouver Hauling
Sample No. : GFL0084027 **Received** : 08 Sep 2023 70 Golden Drive,
Lab Number : 02581173 **Diagnosed** : 11 Sep 2023 Coquitlam, BC
Unique Number : 5642238 **Diagnostician** : Wes Davis CA V3K 6B5
Test Package : MOB 1 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Contact: Catia Klagenberg Alves
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. cklagenbergalves@gflenv.com
 Validity of results and interpretation are based on the sample and information as supplied. T:
F: