



OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL



Machine Id
OR869
 Component
Drop Box
 Fluid
CAT TDTO TRANS-DRIVE SAE 30 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the oil. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Moderate concentration of visible metal present. Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0076984	---	---
Sample Date	Client Info	25 Aug 2023	---	---
Machine Age	hrs	Client Info	16250	---
Oil Age	hrs	Client Info	450	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	106	---	---
Iron	ppm	ASTM D5185(m) >400	409	---
Chromium	ppm	ASTM D5185(m) >4	2	---
Nickel	ppm	ASTM D5185(m) >3	<1	---
Titanium	ppm	ASTM D5185(m)	<1	---
Silver	ppm	ASTM D5185(m)	0	---
Aluminum	ppm	ASTM D5185(m) >15	25	---
Lead	ppm	ASTM D5185(m) >20	<1	---
Copper	ppm	ASTM D5185(m) >50	<1	---
Tin	ppm	ASTM D5185(m) >3	0	---
Antimony	ppm	ASTM D5185(m) >5	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)	43	---
Barium	ppm	ASTM D5185(m)	<1	---
Molybdenum	ppm	ASTM D5185(m)	1	---
Manganese	ppm	ASTM D5185(m)	2	---
Magnesium	ppm	ASTM D5185(m)	12	---
Calcium	ppm	ASTM D5185(m) 2980	2455	---
Phosphorus	ppm	ASTM D5185(m) 1100	1141	---
Zinc	ppm	ASTM D5185(m) 1270	1057	---
Sulfur	ppm	ASTM D5185(m)	6896	---
Lithium	ppm	ASTM D5185(m)	3	---

CONTAMINANTS

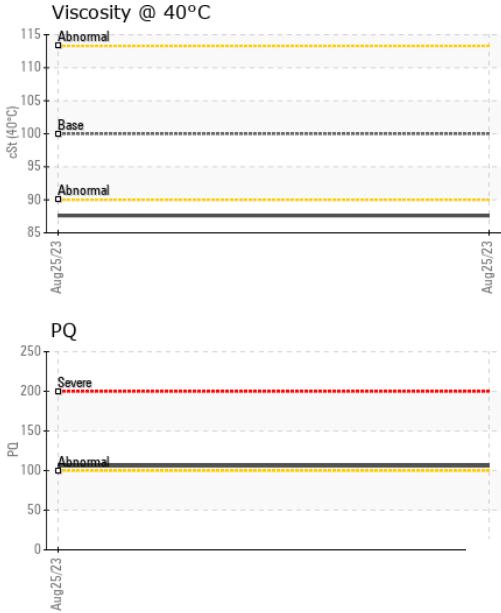
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >60	90	---
Sodium	ppm	ASTM D5185(m)	5	---
Potassium	ppm	ASTM D5185(m) >20	2	---

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	▲ MODER	---
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* >0.2	NEG	---
Free Water	scalar	Visual*	NEG	---



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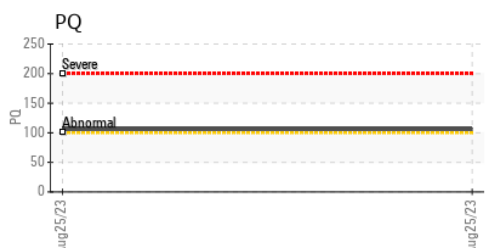
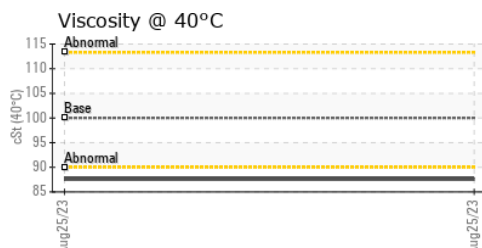
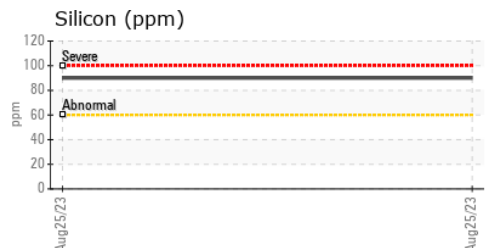
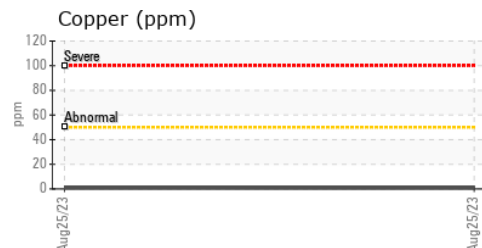
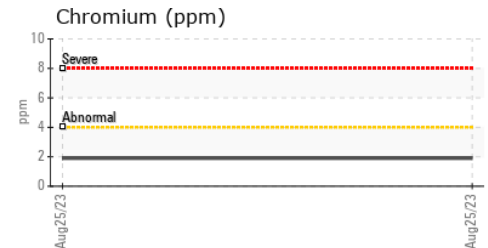
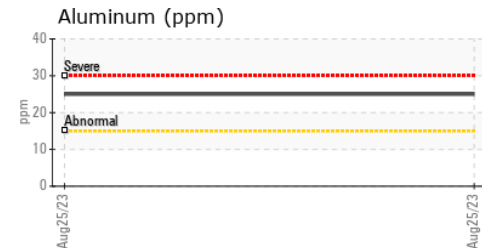
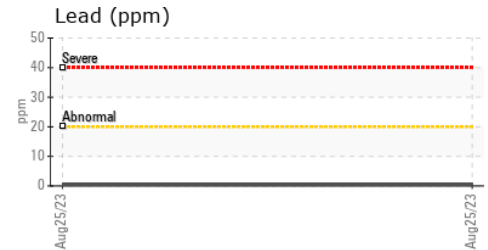
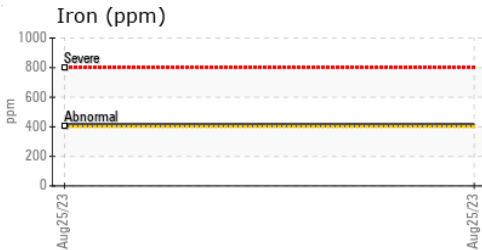


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	100	87.6	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling
Sample No. : GFL0076984 **Received** : 30 Aug 2023
Lab Number : 02579407 **Diagnosed** : 01 Sep 2023
Unique Number : 5632467 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PQ)

38950 Queens Way,
 Squamish, BC
 CA V8B 0K8
 Contact: Dean Imbeau
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 T: (604)892-5604
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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.