

Machine Id
421008
Component
Front Differential
Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm.

WEAR

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

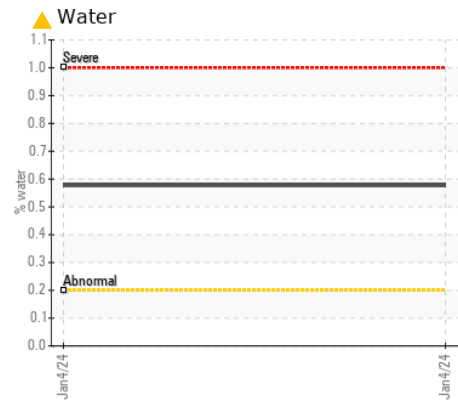
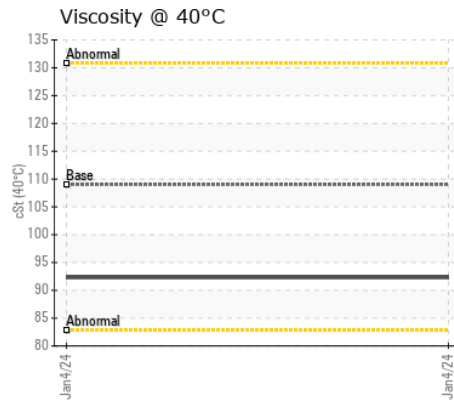
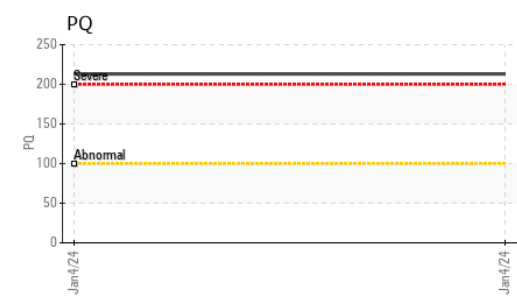
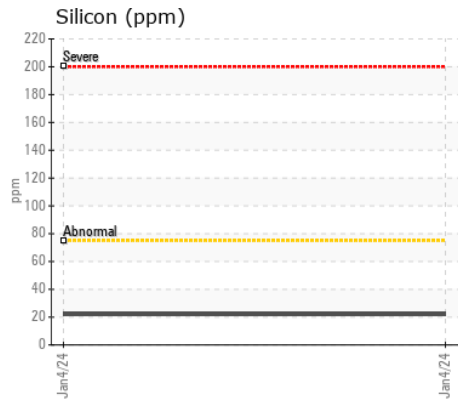
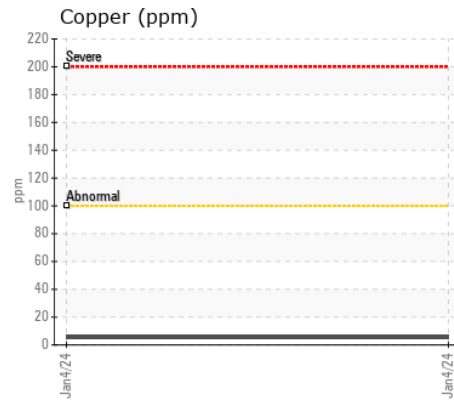
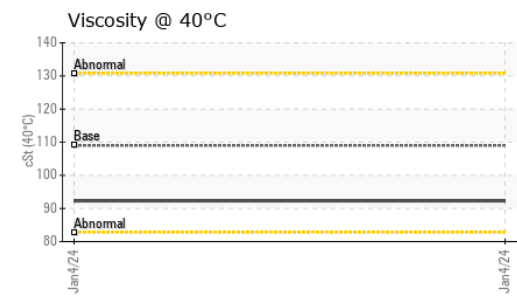
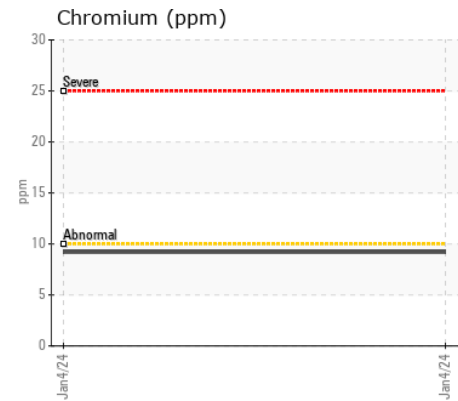
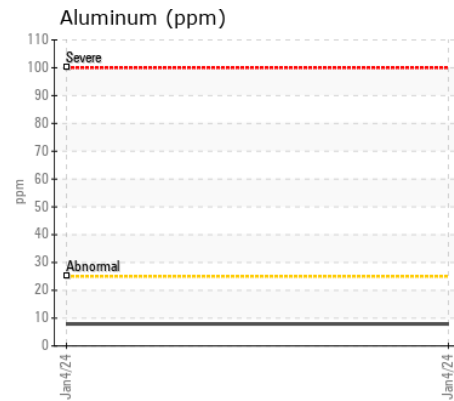
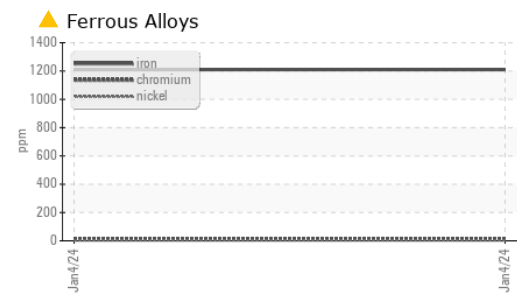
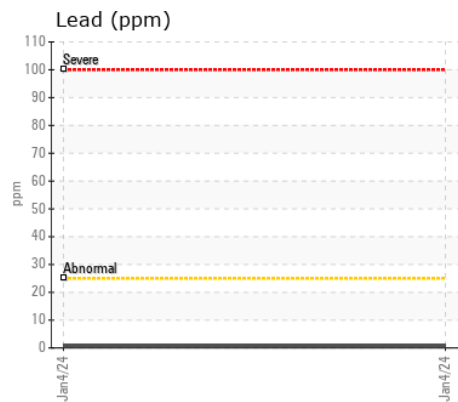
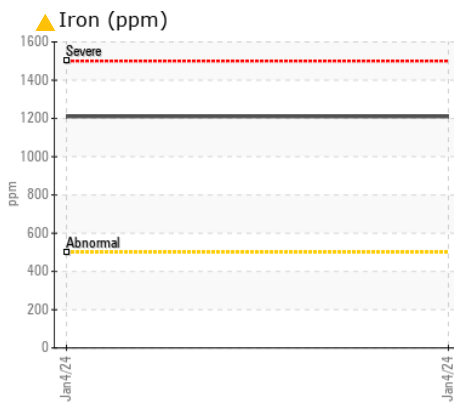
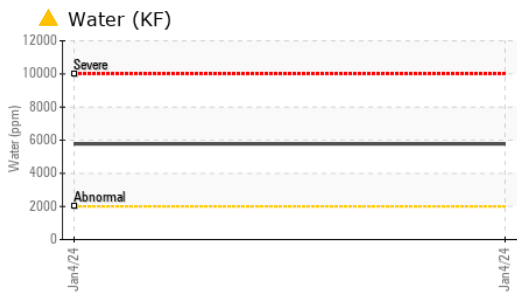
CONTAMINATION

There is a moderate concentration of water present in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0082180	---	---
Sample Date		Client Info		04 Jan 2024	---	---
Machine Age	hrs	Client Info		10310	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---
PQ		ASTM D8184*		213	---	---
Iron	ppm	ASTM D5185(m)	>500	▲ 1210	---	---
Chromium	ppm	ASTM D5185(m)	>10	9	---	---
Nickel	ppm	ASTM D5185(m)	>10	2	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	8	---	---
Lead	ppm	ASTM D5185(m)	>25	<1	---	---
Copper	ppm	ASTM D5185(m)	>100	5	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>75	22	---	---
Potassium	ppm	ASTM D5185(m)	>20	11	---	---
Water	%	ASTM D6304*	>.2	▲ 0.577	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 5776	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	▲ HAZY	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)	400	44	---	---
Barium	ppm	ASTM D5185(m)	200	0	---	---
Molybdenum	ppm	ASTM D5185(m)	12	<1	---	---
Manganese	ppm	ASTM D5185(m)		13	---	---
Magnesium	ppm	ASTM D5185(m)	12	12	---	---
Calcium	ppm	ASTM D5185(m)	150	27	---	---
Phosphorus	ppm	ASTM D5185(m)	1650	1001	---	---
Zinc	ppm	ASTM D5185(m)	125	30	---	---
Sulfur	ppm	ASTM D5185(m)	22500	18726	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	109	92.3	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0082180 **Received** : 11 Jan 2024
Lab Number : 02608272 **Diagnosed** : 15 Jan 2024
Unique Number : 5709358 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KF, PQ)

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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.