



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area
[RON8251]
 Machine Id
RON8251 (S/N T50038683)
 Component
Gearbox
 Fluid
GEAR OIL SAE 140 (--- GAL)



DIAGNOSIS

▲ Recommendation

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 140. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

▲ Wear

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

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. 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		WC0849680	---	---
Sample Date	Client Info		08 Jan 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		20	---	---
Iron	ppm	ASTM D5185(m) >200	▲ 396	---	---
Chromium	ppm	ASTM D5185(m) >15	2	---	---
Nickel	ppm	ASTM D5185(m) >15	<1	---	---
Titanium	ppm	ASTM D5185(m)	79	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >25	8	---	---
Lead	ppm	ASTM D5185(m) >100	0	---	---
Copper	ppm	ASTM D5185(m) >200	<1	---	---
Tin	ppm	ASTM D5185(m) >25	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) 400	125	---	---
Barium	ppm	ASTM D5185(m) 200	1	---	---
Molybdenum	ppm	ASTM D5185(m) 12	<1	---	---
Manganese	ppm	ASTM D5185(m)	2	---	---
Magnesium	ppm	ASTM D5185(m) 12	28	---	---
Calcium	ppm	ASTM D5185(m) 150	47	---	---
Phosphorus	ppm	ASTM D5185(m) 1650	965	---	---
Zinc	ppm	ASTM D5185(m) 125	101	---	---
Sulfur	ppm	ASTM D5185(m) 22500	21148	---	---
Lithium	ppm	ASTM D5185(m)	3	---	---

CONTAMINANTS

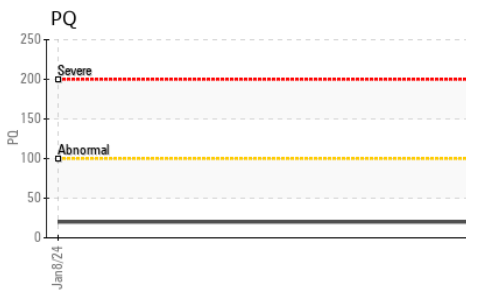
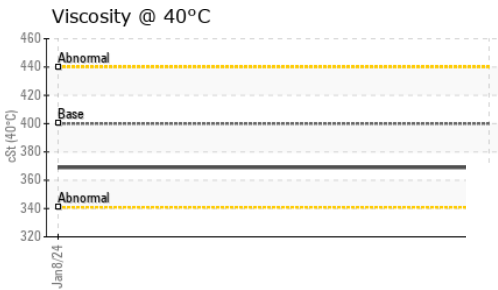
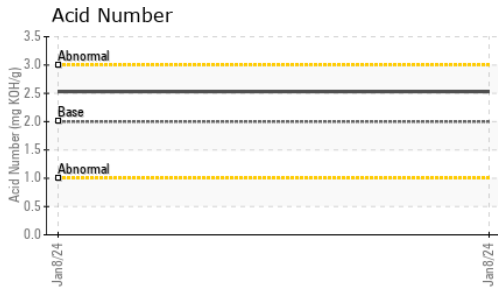
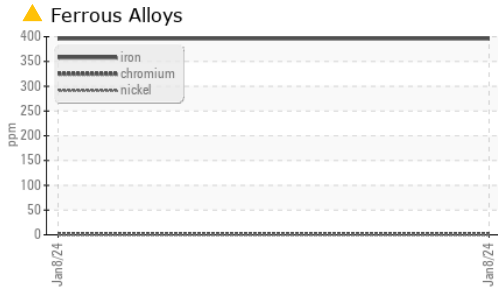
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	25	---	---
Sodium	ppm	ASTM D5185(m)	5	---	---
Potassium	ppm	ASTM D5185(m) >20	8	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 2.00	2.53	---	---



OIL ANALYSIS REPORT



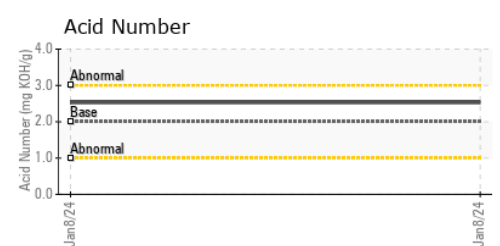
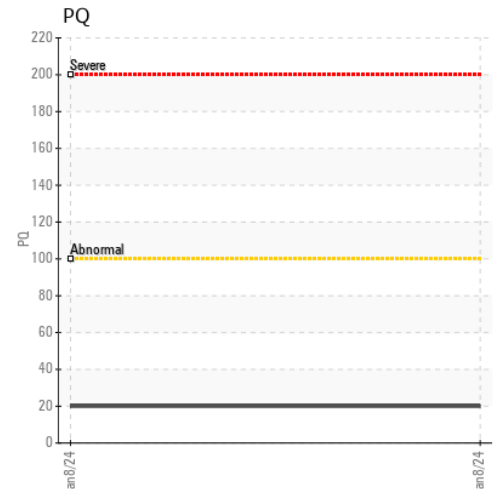
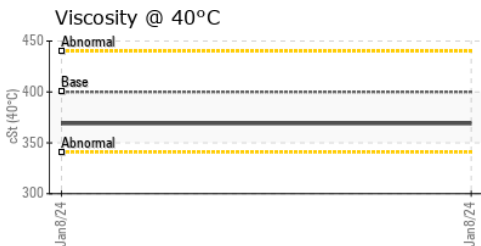
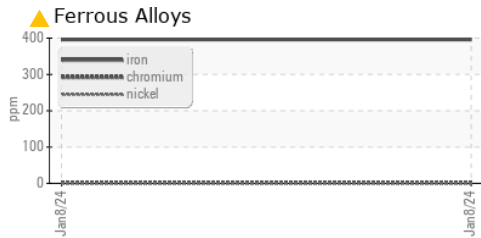
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	400	369	---

SAMPLE IMAGES

PARAMETER	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0849680 **Received** : 11 Jan 2024
Lab Number : 02608274 **Diagnosed** : 14 Jan 2024
Unique Number : 5709360 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

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.

SM CYCLO OF CANADA
 1453 Cornwall Road
 OAKVILLE, ON
 CA L6J 7T5
 Contact: Todd Gelinas
 tsgelinas@suminet.com
 T: (905)469-1050
 F: (905)469-1055