



OIL ANALYSIS REPORT

Sample Rating Trend

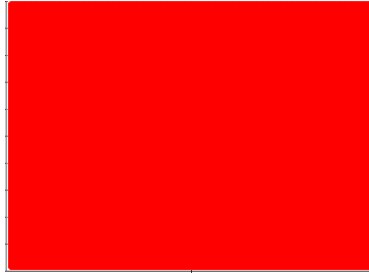
WEAR



Machine Id
2TM90011

Component
Rear Gearbox

Fluid
GEAR OIL SAE 80W90 (--- LTR)



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. 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 80W90. Please confirm. Please specify the component make and model with your next sample.

Wear

Chromium and iron ppm levels are severe. PQ levels are severe. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

Contamination

There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

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		WC0399409	---	---
Sample Date	Client Info		04 Oct 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		4064	---	---
Iron	ppm	ASTM D5185(m) >200	4573	---	---
Chromium	ppm	ASTM D5185(m) >10	25	---	---
Nickel	ppm	ASTM D5185(m) >10	3	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >25	1	---	---
Lead	ppm	ASTM D5185(m) >50	<1	---	---
Copper	ppm	ASTM D5185(m) >200	3	---	---
Tin	ppm	ASTM D5185(m) >10	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	107	---	---
Barium	ppm	ASTM D5185(m) 200	5	---	---
Molybdenum	ppm	ASTM D5185(m) 12	<1	---	---
Manganese	ppm	ASTM D5185(m)	28	---	---
Magnesium	ppm	ASTM D5185(m) 12	5	---	---
Calcium	ppm	ASTM D5185(m) 150	13	---	---
Phosphorus	ppm	ASTM D5185(m) 1650	739	---	---
Zinc	ppm	ASTM D5185(m) 125	13	---	---
Sulfur	ppm	ASTM D5185(m) 22500	11783	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

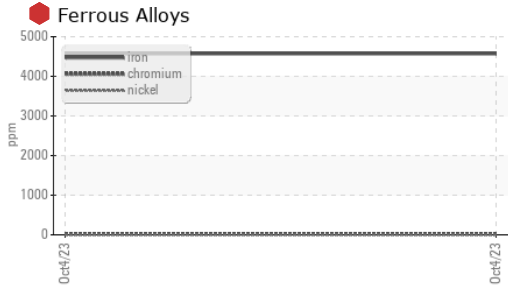
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	63	---	---
Sodium	ppm	ASTM D5185(m) >170	4	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---

FLUID DEGRADATION

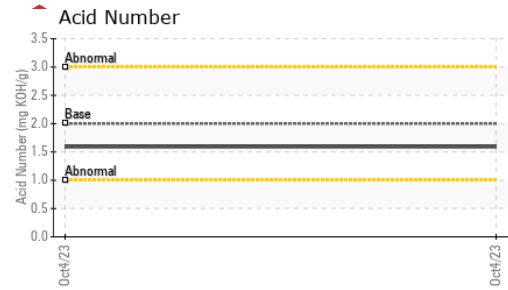
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 2.00	1.59	---	---



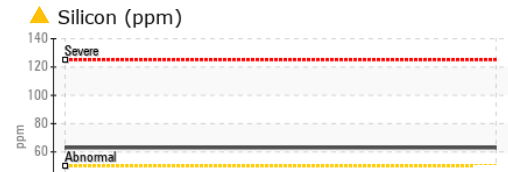
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	LIGHT	---	---
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	---	---



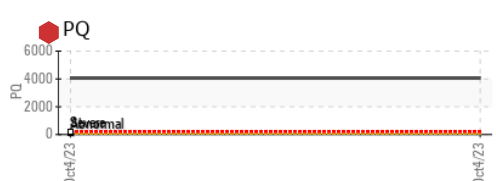
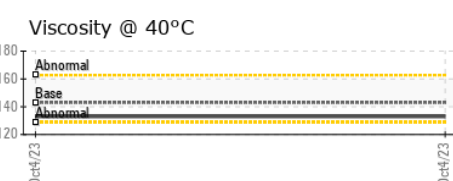
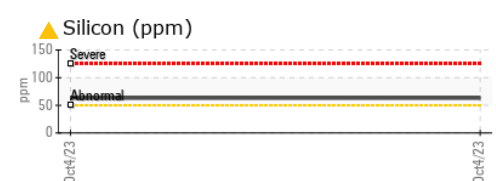
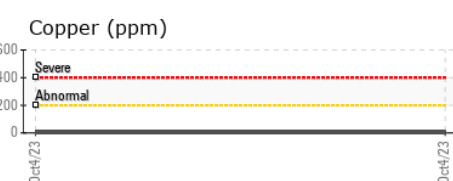
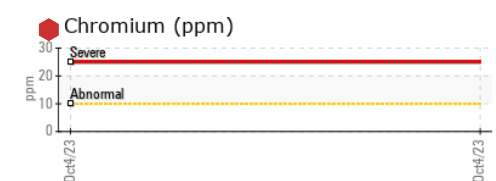
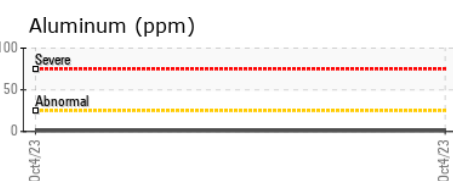
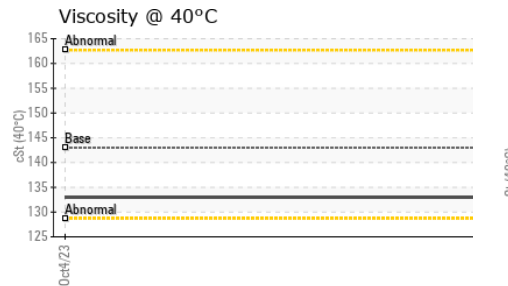
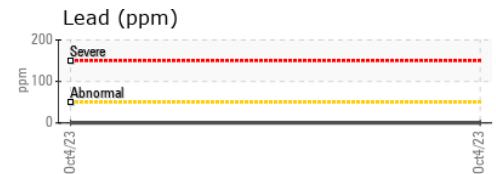
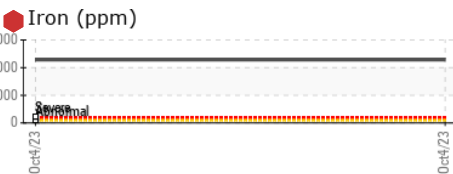
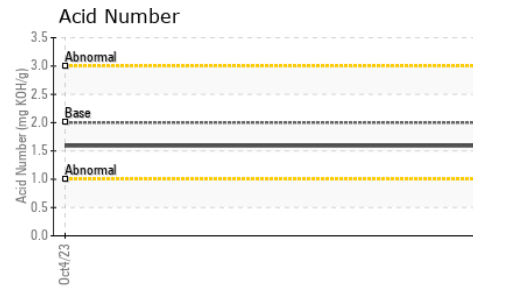
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	143	133	---	---



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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0399409 **Received** : 05 Oct 2023
Lab Number : 02587326 **Diagnosed** : 06 Oct 2023
Unique Number : 5656392 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: PQ, TAN Man)

Steve Dippel
 RR # 2
 Ayton, ON
 CA N0G 1C0
 Contact: Service Manager

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.

T: (519)575-5774
 F: