

Machine Id  
**DR193**  
Component  
**Left Final Drive**  
Fluid  
**GEAR OIL ISO 220 (--- LTR)**



**DIAGNOSIS**

**Recommendation**  
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**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 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	<b>PC0080452</b>	---	---
Sample Date	Client Info	<b>27 Jan 2024</b>	---	---
Machine Age	hrs Client Info	<b>468</b>	---	---
Oil Age	hrs Client Info	<b>250</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

**CONTAMINATION**

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

**WEAR METALS**

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>120</b>	---	---
Iron	ppm ASTM D5185(m) >500	<b>34</b>	---	---
Chromium	ppm ASTM D5185(m) >10	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185(m) >10	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m) >25	<b>1</b>	---	---
Lead	ppm ASTM D5185(m) >25	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185(m) >50	<b>6</b>	---	---
Tin	ppm ASTM D5185(m) >10	<b>&lt;1</b>	---	---
Antimony	ppm ASTM D5185(m) >5	<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	---	---

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 50	<b>29</b>	---	---
Barium	ppm ASTM D5185(m) 15	<b>8</b>	---	---
Molybdenum	ppm ASTM D5185(m) 15	<b>0</b>	---	---
Manganese	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185(m) 50	<b>&lt;1</b>	---	---
Calcium	ppm ASTM D5185(m) 50	<b>17</b>	---	---
Phosphorus	ppm ASTM D5185(m) 350	<b>440</b>	---	---
Zinc	ppm ASTM D5185(m) 100	<b>5</b>	---	---
Sulfur	ppm ASTM D5185(m) 12500	<b>5753</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

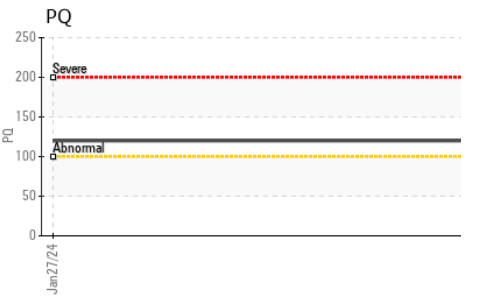
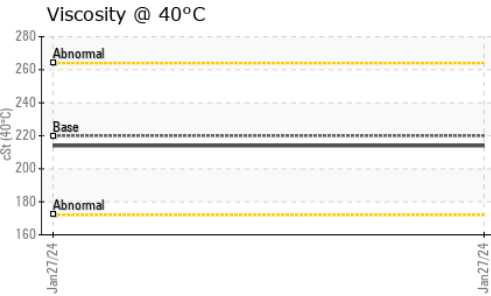
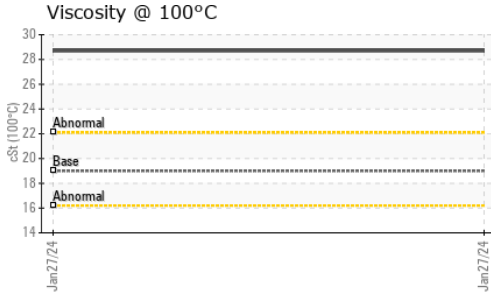
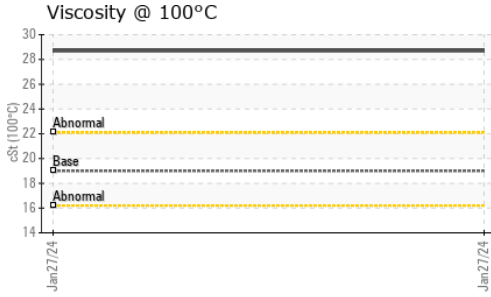
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >75	<b>7</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>13</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>2</b>	---	---

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.85	<b>0.77</b>	---	---

# OIL ANALYSIS REPORT



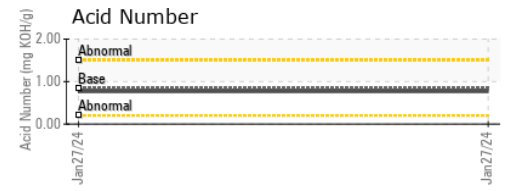
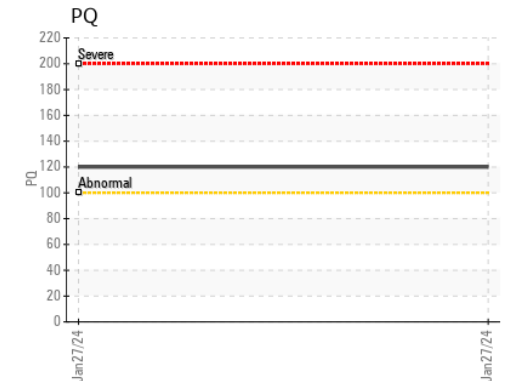
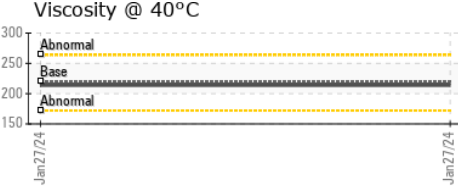
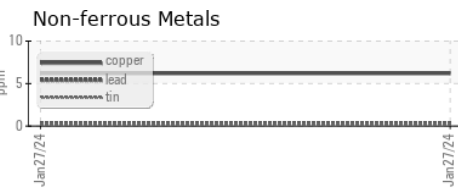
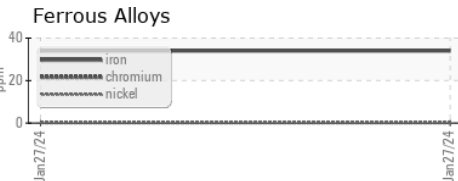
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ MODER	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	214	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.0	28.7	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	173	---

### SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
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 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0080452 **Received** : 01 Feb 2024 151 Ram Forest Rd,  
**Lab Number** : 02612927 **Diagnosed** : 03 Feb 2024 Stouffville, ON  
**Unique Number** : 5722022 **Diagnostician** : Bill Quesnel CA L4A 2G8  
**Test Package** : IND 2 ( Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, VI ) **Contact:** Shannon Abbott  
*To discuss this sample report, contact Customer Service at 1-800-268-2131.* sabbott@gipi.com  
*Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.* T: (905)750-5900  
*Validity of results and interpretation are based on the sample and information as supplied.* F: