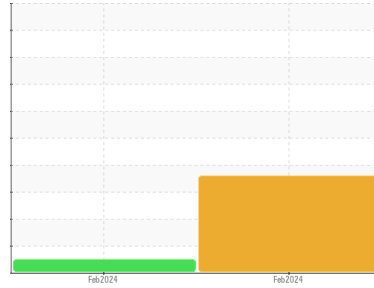


Machine Id
OR252
Component
Right Reduction Gear
Fluid
{not provided} (--- LTR)



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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear
PQ levels are abnormal. Copper and iron ppm levels are abnormal. Gear wear is indicated. Bearing and/or bushing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

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			PC0080588	PC0080585	---
Sample Date	Client Info			25 Feb 2024	22 Feb 2024	---
Machine Age	hrs	Client Info		18014	18014	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Not Chngd	Not Chngd	---
Sample Status				ABNORMAL	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	---

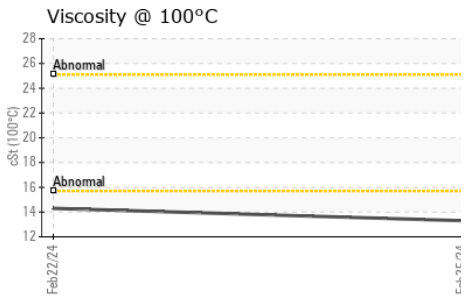
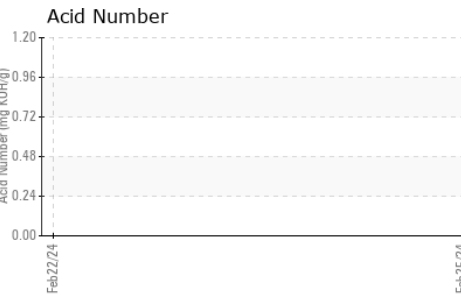
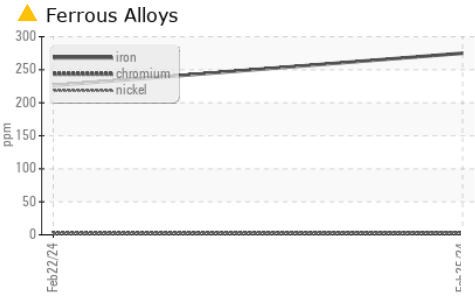
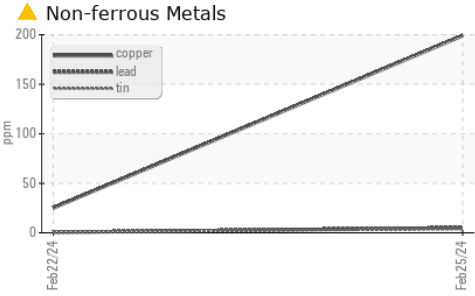
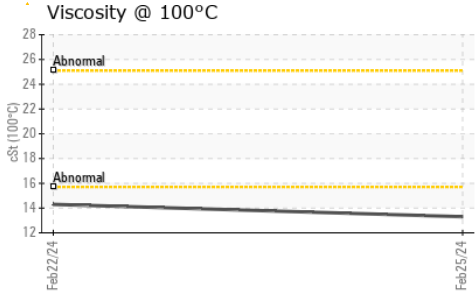
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		▲ 366	25	---
Iron	ppm	ASTM D5185(m)	>150	▲ 275	▲ 226	---
Chromium	ppm	ASTM D5185(m)	>10	3	2	---
Nickel	ppm	ASTM D5185(m)	>10	2	2	---
Titanium	ppm	ASTM D5185(m)		<1	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	9	8	---
Lead	ppm	ASTM D5185(m)	>100	5	<1	---
Copper	ppm	ASTM D5185(m)	>50	▲ 199	25	---
Tin	ppm	ASTM D5185(m)	>10	4	<1	---
Antimony	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		76	113	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		6	0	---
Manganese	ppm	ASTM D5185(m)		2	1	---
Magnesium	ppm	ASTM D5185(m)		32	6	---
Calcium	ppm	ASTM D5185(m)		337	88	---
Phosphorus	ppm	ASTM D5185(m)		782	1004	---
Zinc	ppm	ASTM D5185(m)		229	32	---
Sulfur	ppm	ASTM D5185(m)		16229	20422	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	32	38	---
Sodium	ppm	ASTM D5185(m)		9	3	---
Potassium	ppm	ASTM D5185(m)	>20	4	7	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		1.02	---	---

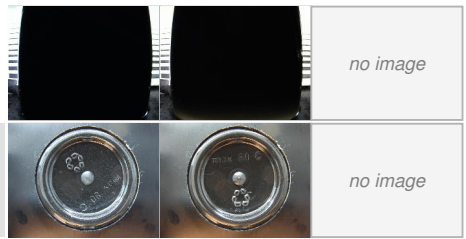
OIL ANALYSIS REPORT



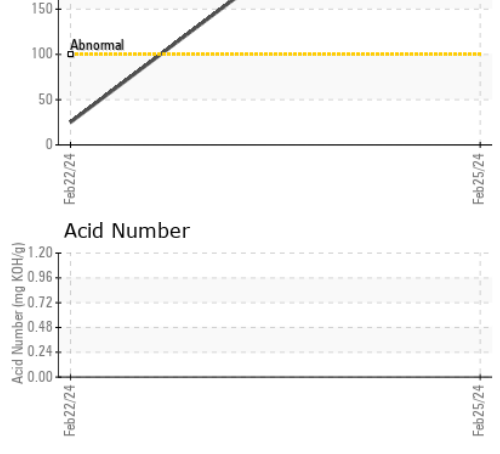
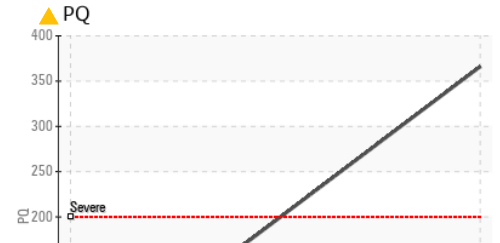
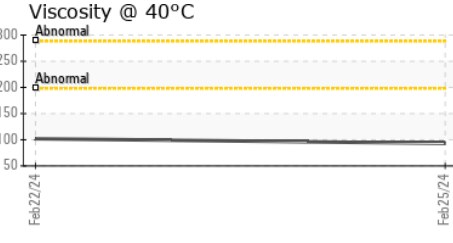
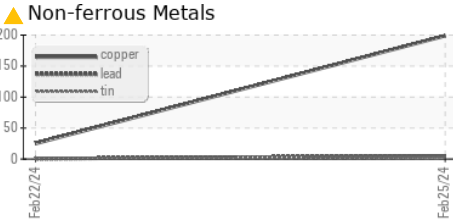
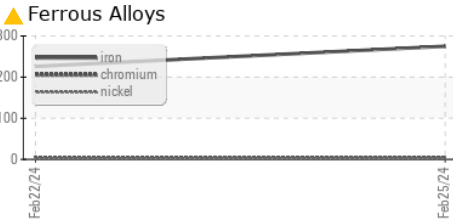
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	LIGHT
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	93.1	▲ 102	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.3	▲ 14.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	142	143	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080588
Lab Number : 02618148
Unique Number : 5735258
Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI)

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Shannon Abbott
 sabbott@gipi.com
 T: (905)750-5900
 F:

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.