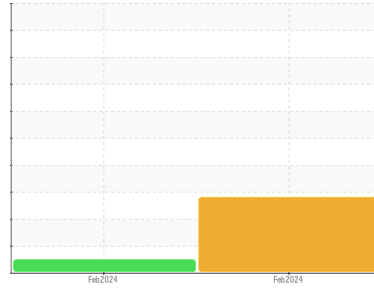




Machine Id
ROADTECH 2500E 2611300
Component
Front Left Final Drive
Fluid
GEAR OIL ISO 220 (--- GAL)



DIAGNOSIS

- Recommendation**
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.
- 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 viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. 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	PC0072968	PC0072975	---
Sample Date	Client Info	08 Feb 2024	08 Feb 2024	---
Machine Age	hrs	6533	6533	---
Oil Age	hrs	500	500	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		ABNORMAL	NORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	7	---	---
Iron	ppm	ASTM D5185(m) >500	▲ 750	18
Chromium	ppm	ASTM D5185(m) >10	4	<1
Nickel	ppm	ASTM D5185(m) >10	2	<1
Titanium	ppm	ASTM D5185(m)	0	0
Silver	ppm	ASTM D5185(m)	0	0
Aluminum	ppm	ASTM D5185(m) >25	1	<1
Lead	ppm	ASTM D5185(m) >25	<1	<1
Copper	ppm	ASTM D5185(m) >50	<1	6
Tin	ppm	ASTM D5185(m) >10	0	0
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

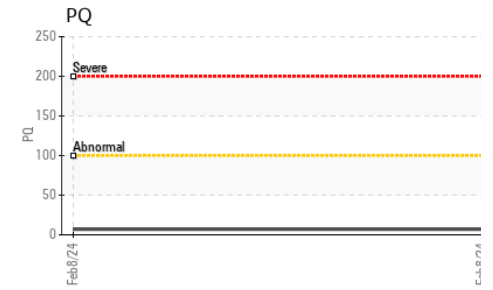
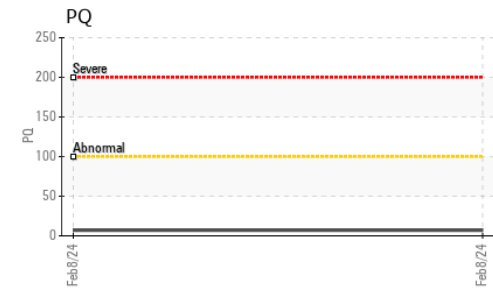
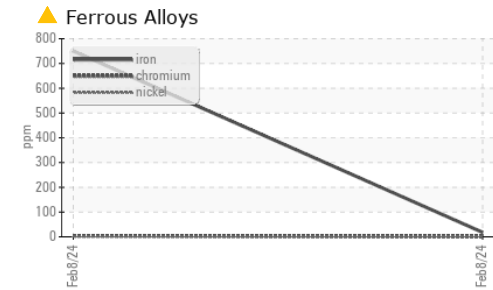
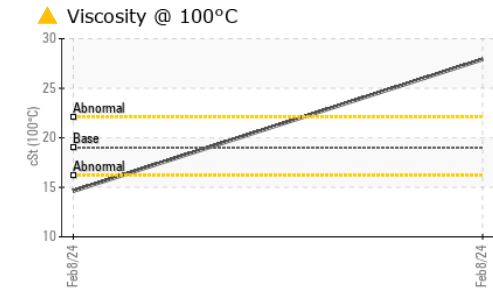
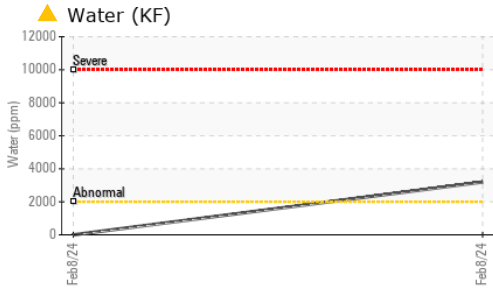
ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	48	235
Barium	ppm	ASTM D5185(m) 15	0	0
Molybdenum	ppm	ASTM D5185(m) 15	0	0
Manganese	ppm	ASTM D5185(m)	6	0
Magnesium	ppm	ASTM D5185(m) 50	4	1
Calcium	ppm	ASTM D5185(m) 50	11	3
Phosphorus	ppm	ASTM D5185(m) 350	414	949
Zinc	ppm	ASTM D5185(m) 100	15	6
Sulfur	ppm	ASTM D5185(m) 12500	6787	18067
Lithium	ppm	ASTM D5185(m)	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	6	9
Sodium	ppm	ASTM D5185(m)	<1	<1
Potassium	ppm	ASTM D5185(m) >20	6	<1
Water	%	ASTM D6304* >0.2	▲ 0.320	---
ppm Water	ppm	ASTM D6304* >2000	▲ 3200	---

OIL ANALYSIS REPORT

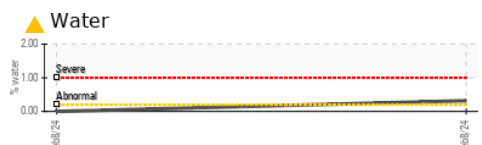
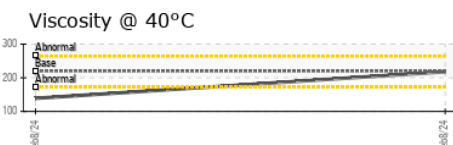
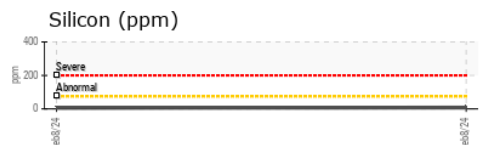
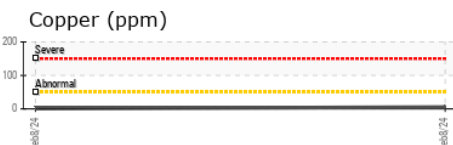
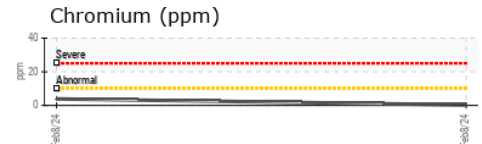
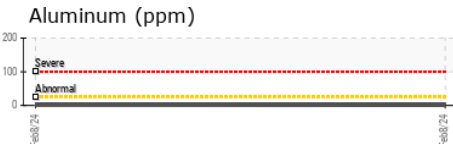
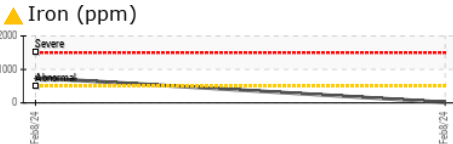


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	218	139
Visc @ 100°C	cSt	ASTM D7279(m)	19.0	▲ 27.9	14.6
Viscosity Index (VI)	Scale	ASTM D2270*	96	165	104

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0072968
Lab Number : 02614742
Unique Number : 5723837
Test Package : MOB 1 (Additional Tests: KF, KV100, PQ, VI)

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 CHATHAM, ON
 CA N7M 5K8
 Contact: John Malett
 john.malett@millergroup.com
 T:
 F: (519)351-1880

*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.*