

Machine Id
ROADTEC 2611300
Component
Right Gearbox
Fluid
SAE 80W90 (--- GAL)

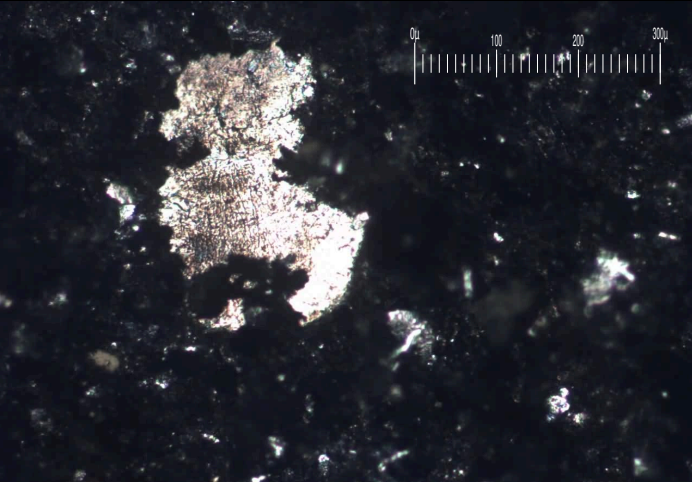
RECOMMENDATION

We advise that you check for visible metal particles in the oil. 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.

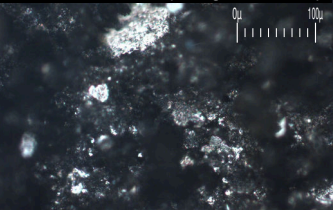
WEAR

Iron ppm levels are severe. PQ levels are severe. Wear particle analysis indicates that the ferrous rolling, ferrous black oxides, ferrous black oxides and ferrous rubbing particles are abnormal. Moderate concentration of visible metal present. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

Particle Filter (Magn: 100 x)



Particle Filter (Magn: 200 x)



Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0043112	PC0043105	---
Sample Date		Client Info		05 Jan 2023	19 Jan 2022	---
Machine Age	hrs	Client Info		6300	5600	---
Oil Age	hrs	Client Info		200	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---
PQ		ASTM D8184*		▲ 2823	129	---
Iron	ppm	ASTM D5185(m)	>200	▲ 2013	▲ 1691	---
Chromium	ppm	ASTM D5185(m)	>10	2	2	---
Nickel	ppm	ASTM D5185(m)	>10	1	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)	>50	0	0	---
Copper	ppm	ASTM D5185(m)	>200	<1	<1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	▲ MODER	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Ferrous Rubbing	Scale 0-10	ASTM D7684*		▲ 7		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		▲ 4		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		▲ 2		
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				

CONTAMINANTS

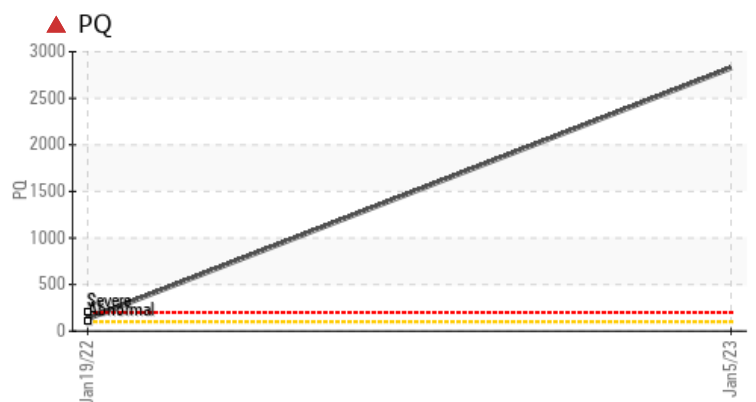
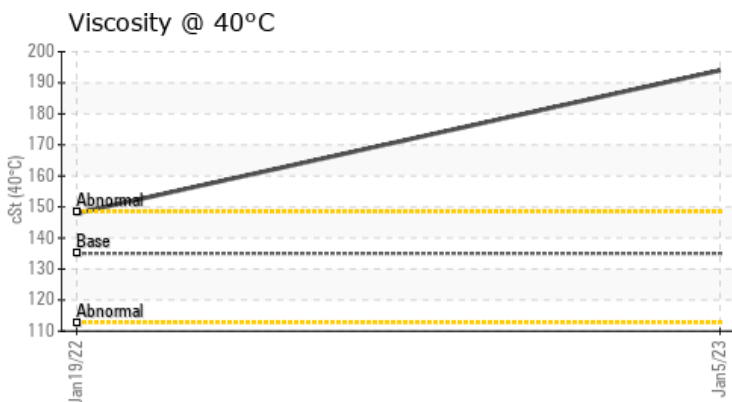
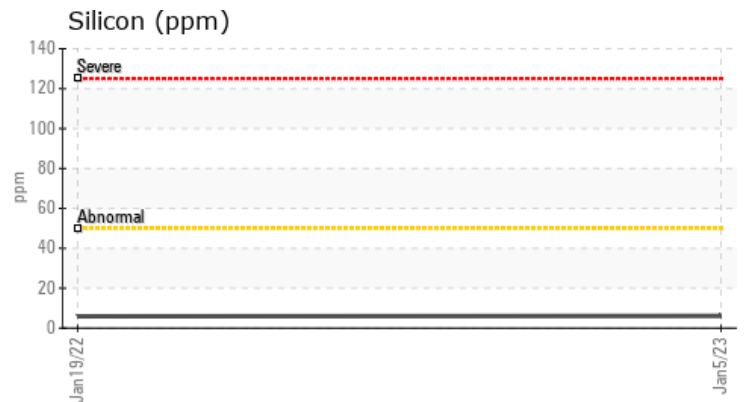
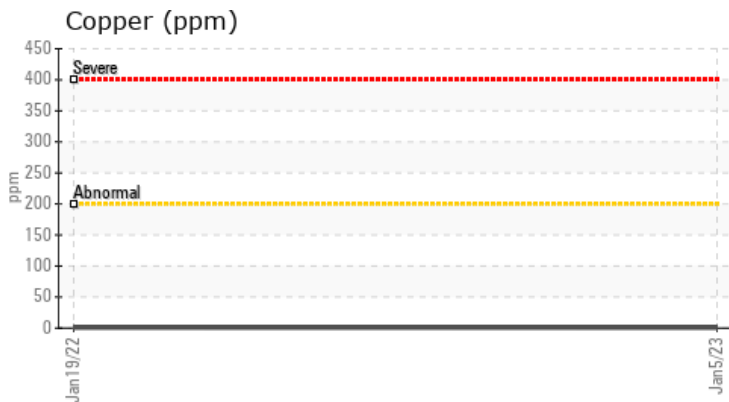
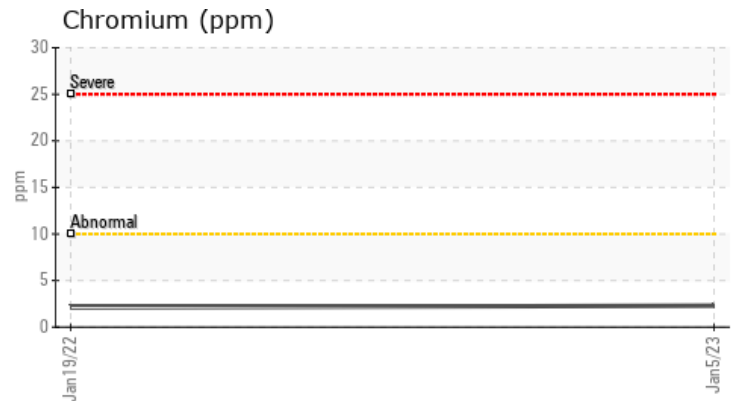
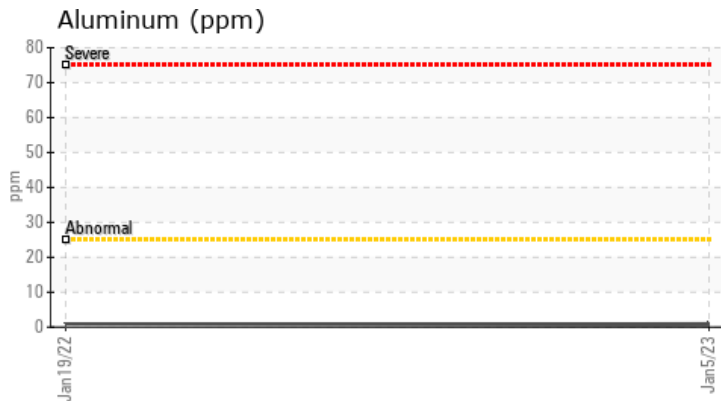
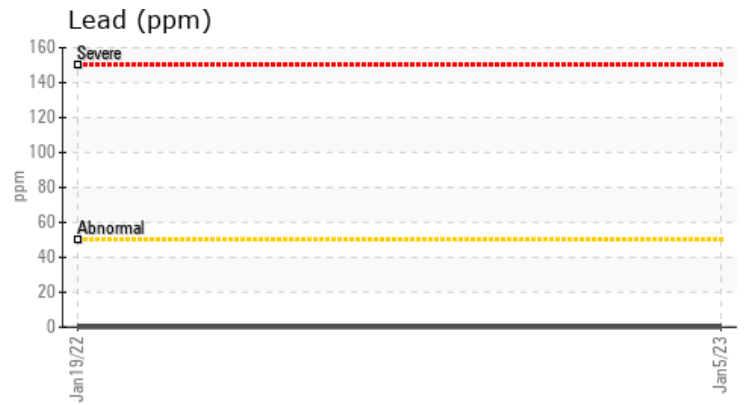
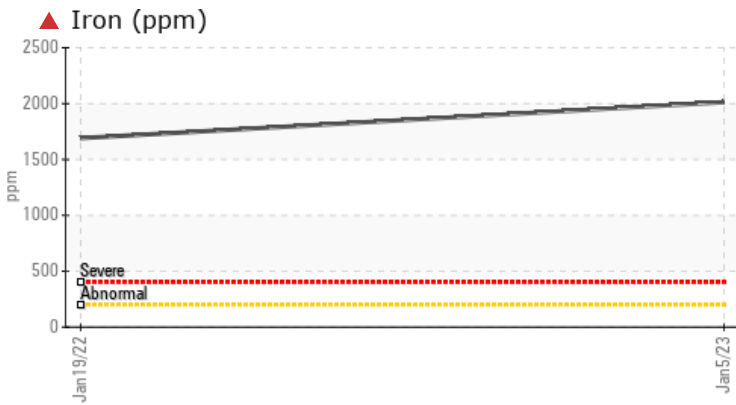
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	6	6	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	BURNT	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*				
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*				

OIL CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)	>50	1	0	---
Boron	ppm	ASTM D5185(m)	200	73	13	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)		15	8	---
Magnesium	ppm	ASTM D5185(m)	0	0	0	---
Calcium	ppm	ASTM D5185(m)	20	4	23	---
Phosphorus	ppm	ASTM D5185(m)	1000	386	299	---
Zinc	ppm	ASTM D5185(m)	20	2	17	---
Sulfur	ppm	ASTM D5185(m)	22000	6337	22346	---
Visc @ 40°C	cSt	ASTM D7279(m)	135	194	148	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	23.3	14.9	---
Viscosity Index (VI)	Scale	ASTM D2270*	112	147	100	---
Lubricant Degradation	Scale 0-10	ASTM D7684*				



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0043112
Lab Number : 02534399
Unique Number : 5515398
Test Package : MOB 1 (Additional Tests: A-Ferr, Bottom, BottomAnalysis, FilterPatch, KV100, PQ, etc)

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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.

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