



Machine Id
NO UNIT PC0088292
Component
Diesel Engine
Fluid
SAE 5W40 (--- GAL)

RECOMMENDATION

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. Cylinder, crank, or cam shaft wear is indicated.

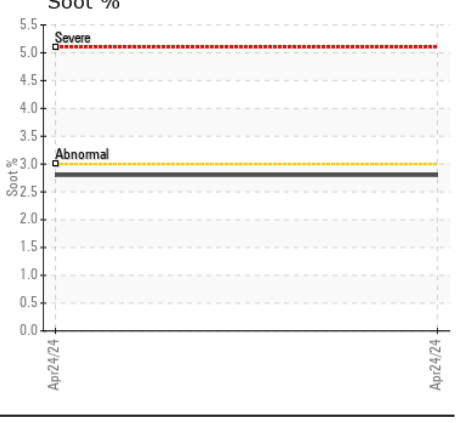
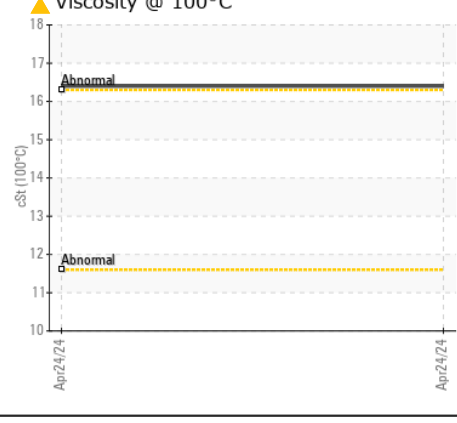
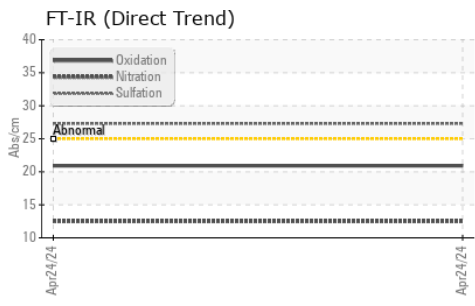
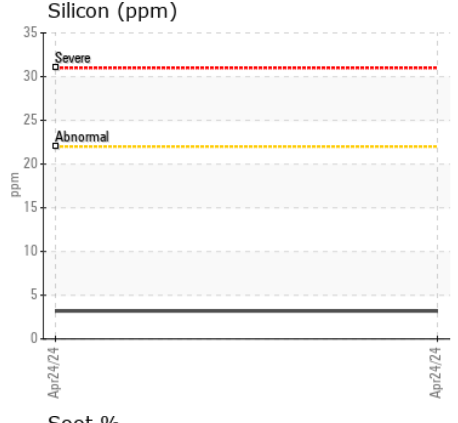
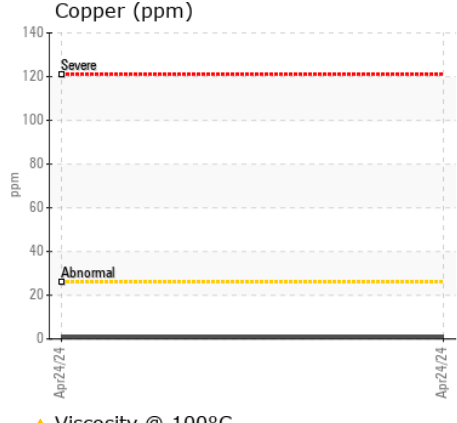
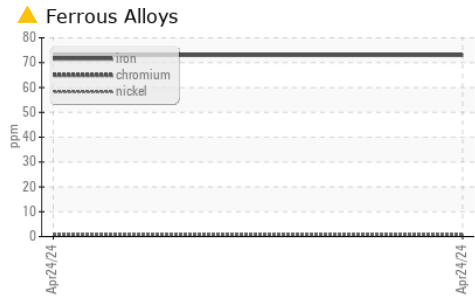
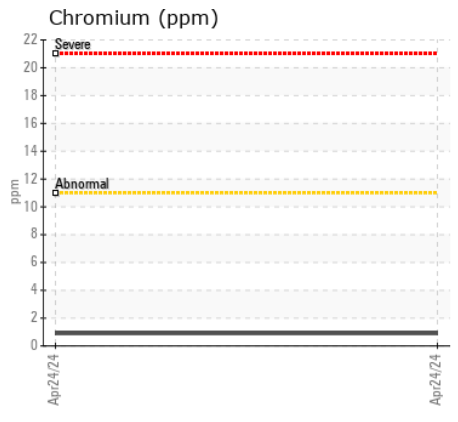
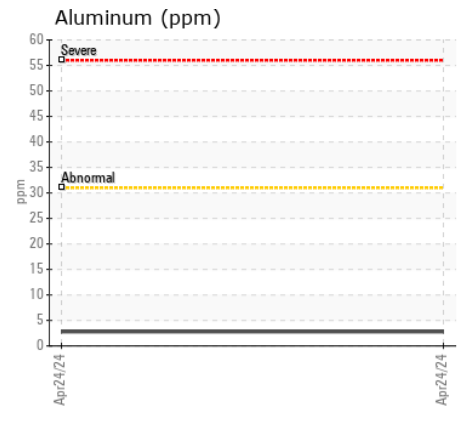
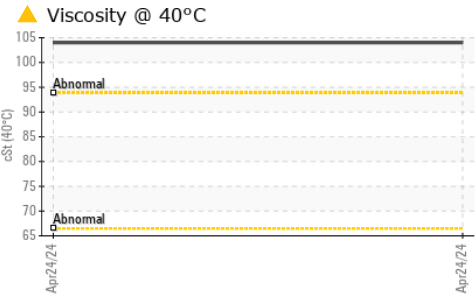
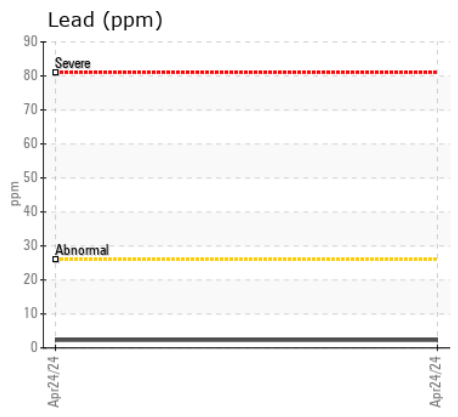
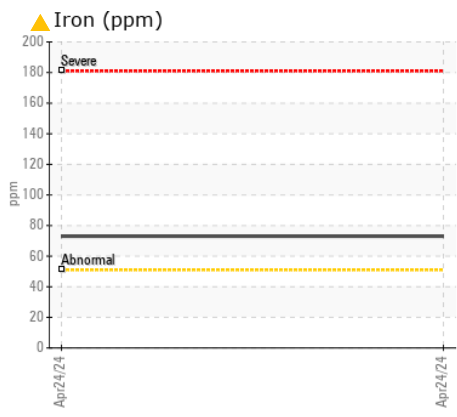
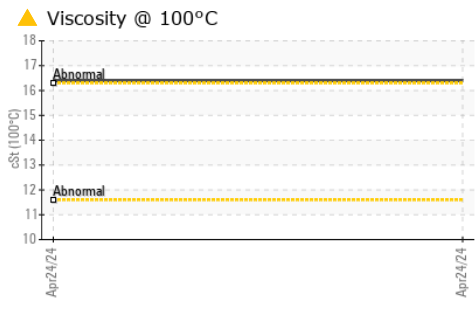
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 10W50 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088292	---	---
Sample Date		Client Info		24 Apr 2024	---	---
Machine Age	hrs	Client Info		19392	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
PQ		ASTM D8184*	>50	0	---	---
Iron	ppm	ASTM D5185(m)	>51	▲ 73	---	---
Chromium	ppm	ASTM D5185(m)	>11	<1	---	---
Nickel	ppm	ASTM D5185(m)	>5	1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>31	3	---	---
Lead	ppm	ASTM D5185(m)	>26	2	---	---
Copper	ppm	ASTM D5185(m)	>26	1	---	---
Tin	ppm	ASTM D5185(m)	>4	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>22	3	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>2.1	<1.0	---	---
Water		WC Method	>0.21	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	2.8	---	---
Nitration	Abs/cm	ASTM D7624*	>20	12.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.3	---	---
Emulsified Water	scalar	Visual*	>0.21	NEG	---	---
Sodium	ppm	ASTM D5185(m)		4	---	---
Boron	ppm	ASTM D5185(m)		38	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		63	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		1190	---	---
Calcium	ppm	ASTM D5185(m)		900	---	---
Phosphorus	ppm	ASTM D5185(m)		1030	---	---
Zinc	ppm	ASTM D5185(m)		1272	---	---
Sulfur	ppm	ASTM D5185(m)		2676	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.9	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		▲ 104	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		▲ 16.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		170	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088292
Lab Number : 02634521
Unique Number : 5775674
Test Package : MOB 1 (Additional Tests: KV40, PQ, VI)

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Bill Acton
 bacton@gipi.com

*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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F: