



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
CASE SV340B NOUNITWC0910047
 Component
Diesel Engine
 Fluid
SAE 10W30 (--- GAL)

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.

▲ Wear

Aluminum ppm levels are severe. Tin ppm levels are abnormal. Piston wear is indicated. Slide bearing wear is indicated.

▲ Contamination

There is a trace of moisture present in the oil. Test for glycol is negative.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the 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		WC0910047	---	---
Sample Date	Client Info		09 Jul 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	1000	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	68	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---
Nickel	ppm	ASTM D5185(m)	>4	1	---
Titanium	ppm	ASTM D5185(m)		<1	---
Silver	ppm	ASTM D5185(m)	>3	0	---
Aluminum	ppm	ASTM D5185(m)	>20	▲ 74	---
Lead	ppm	ASTM D5185(m)	>40	0	---
Copper	ppm	ASTM D5185(m)	>330	8	---
Tin	ppm	ASTM D5185(m)	>15	▲ 24	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		37	---
Barium	ppm	ASTM D5185(m)		<1	---
Molybdenum	ppm	ASTM D5185(m)		13	---
Manganese	ppm	ASTM D5185(m)		1	---
Magnesium	ppm	ASTM D5185(m)		87	---
Calcium	ppm	ASTM D5185(m)		2119	---
Phosphorus	ppm	ASTM D5185(m)		1011	---
Zinc	ppm	ASTM D5185(m)		1195	---
Sulfur	ppm	ASTM D5185(m)		3383	---
Lithium	ppm	ASTM D5185(m)		1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	---
Sodium	ppm	ASTM D5185(m)	>228	2	---
Potassium	ppm	ASTM D5185(m)	>20	7	---
Water	%	ASTM D6304*	>0.2	▲ 0.115	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 1152	---
Glycol	%	ASTM D7922*		0.0	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	10.3	---
Sulfation	Abs./1mm	ASTM D7415*	>30	19.3	---



OIL ANALYSIS REPORT

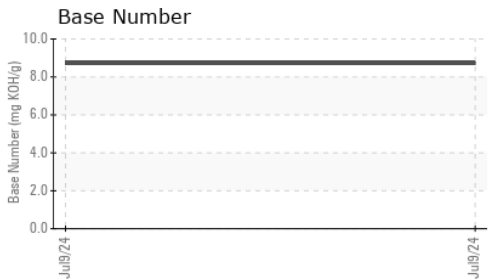
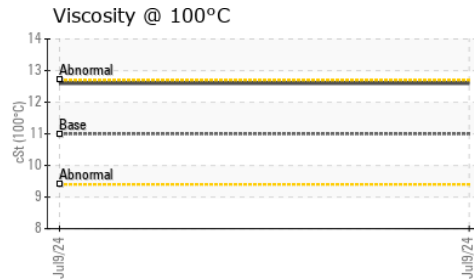
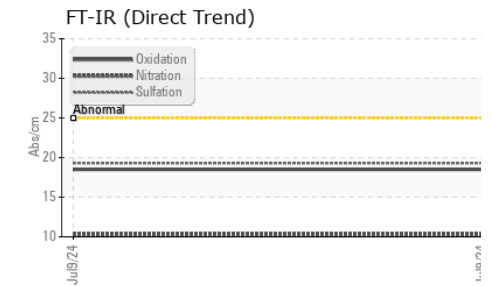
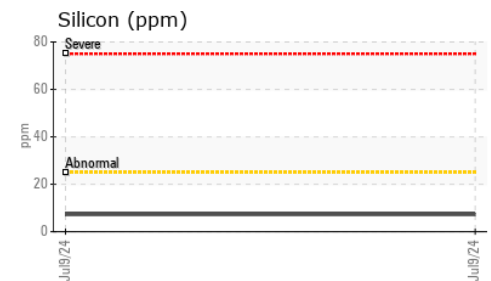
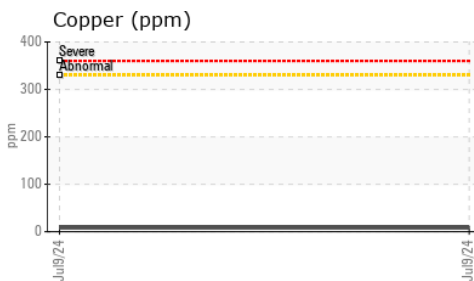
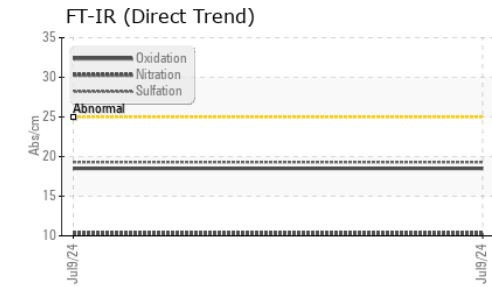
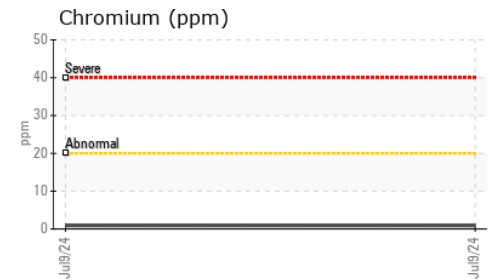
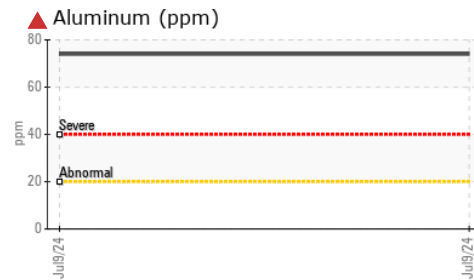
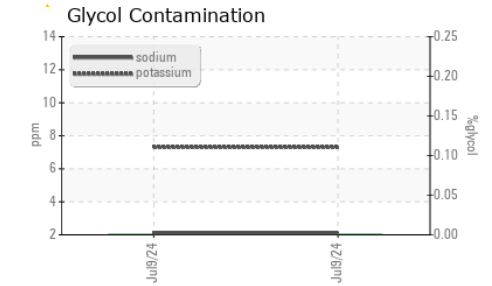
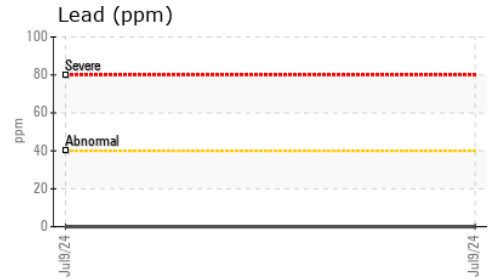
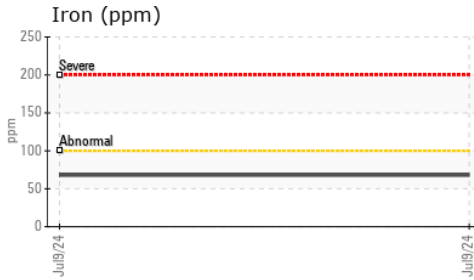
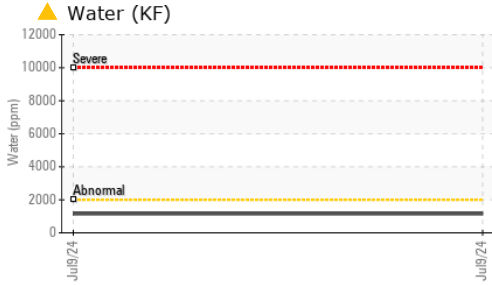


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.5	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		8.72	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	12.6	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0910047 **Received** : 10 Jul 2024
Lab Number : **02646887** **Tested** : 15 Jul 2024
Unique Number : 5812439 **Diagnosed** : 15 Jul 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol, KF)

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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.