



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL A INTERNATIONAL A
Component
Diesel Engine
Fluid
QUAKER STATE SAE 10W30 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0900941	WC0680725	WC0458688
Sample Date		Client Info		25 Mar 2024	16 Mar 2022	27 Aug 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		95	90	85
Filter Age	hrs	Client Info		95	90	85
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	11	25
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	8	8	7
Copper	ppm	ASTM D5185(m)	>330	9	6	12
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

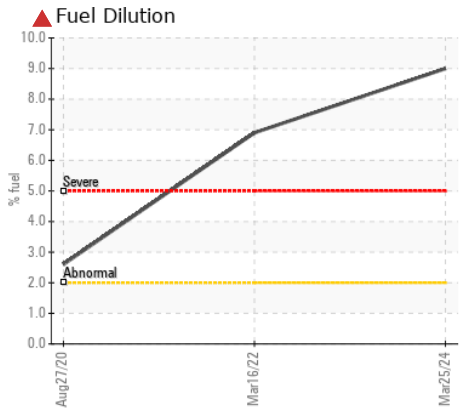
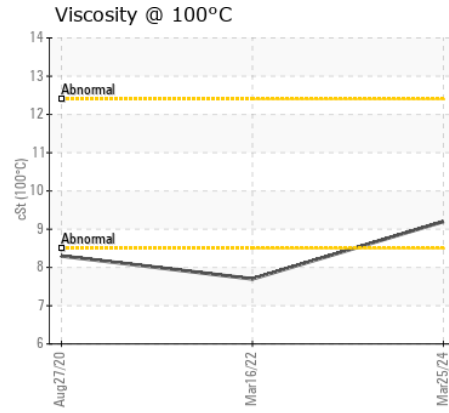
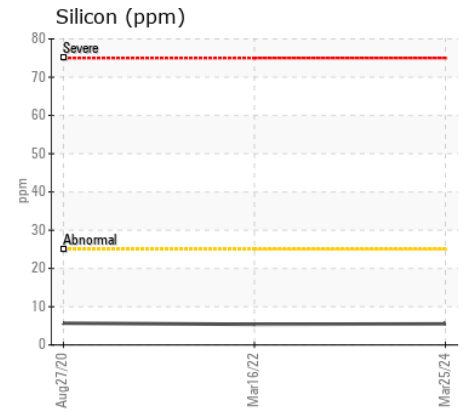
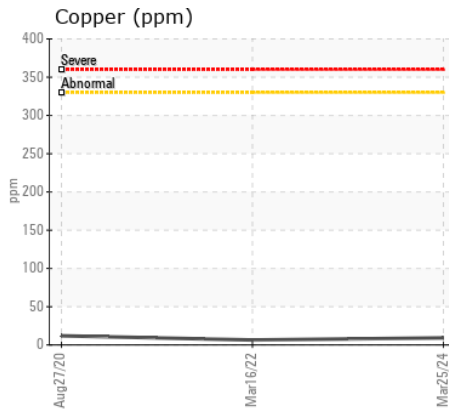
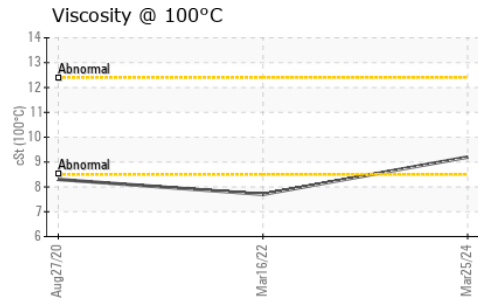
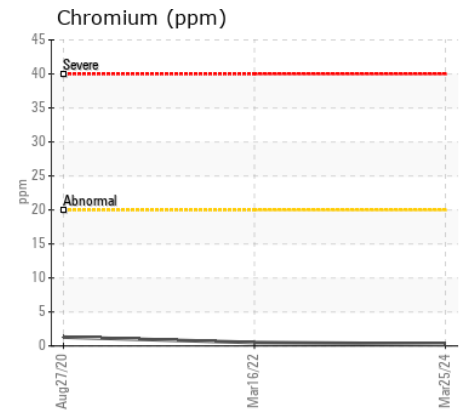
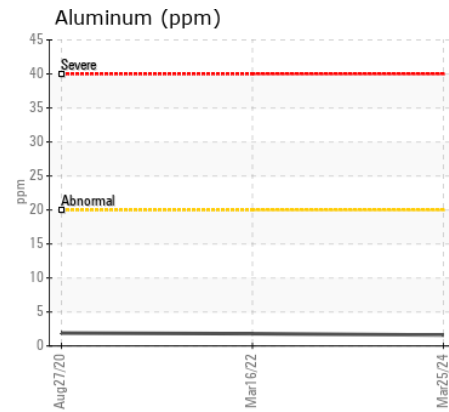
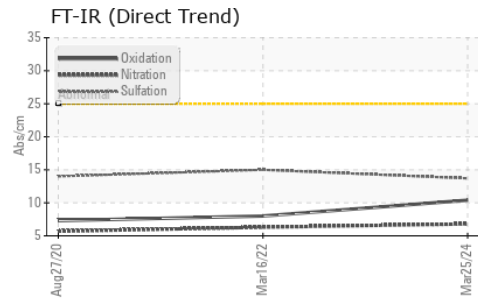
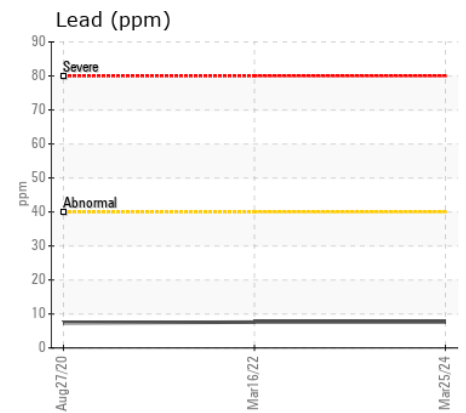
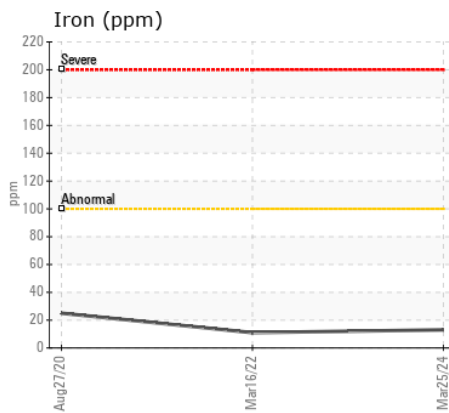
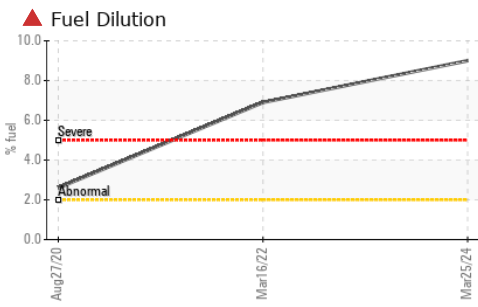
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	5	6
Potassium	ppm	ASTM D5185(m)	>20	3	2	1
Fuel	%	ASTM D7593*	>2.0	▲ 9	▲ 6.9	▲ 2.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	▲ 0.014	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.8	6.3	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.7	15.0	14.0
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	VLITE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	▲ WGOIL	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		14	8	7
Boron	ppm	ASTM D5185(m)		39	63	70
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		113	118	125
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		278	242	27
Calcium	ppm	ASTM D5185(m)		795	1173	1428
Phosphorus	ppm	ASTM D5185(m)		573	579	537
Zinc	ppm	ASTM D5185(m)		474	609	599
Sulfur	ppm	ASTM D5185(m)		1539	1455	1419
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.4	8.0	7.3
Visc @ 100°C	cSt	ASTM D7279(m)		9.2	▲ 7.7	▲ 8.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0900941 **Received** : 04 Apr 2024
Lab Number : 02626600 **Tested** : 05 Apr 2024
Unique Number : 5759732 **Diagnosed** : 05 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)

ED REEB FARMS INC.
 R.R.#3., 648 SOUTH MIDDLE RD
 ESSEX, ON
 CA N8M 2X7
 Contact: Ed Reeb
 ecreeb@mnsi.net
 T: (519)723-4601
 F: (519)723-4601

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.