



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
FORD 1FT7W2BT8MEE00946
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC III SAE 10W30 (12 LTR)

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		TR02626551	TR02576652	TR02529711
Sample Date		Client Info		23 Mar 2024	20 May 2023	15 Dec 2022
Machine Age	kms	Client Info		228321	157694	123750
Oil Age	kms	Client Info		36413	33930	27365
Filter Age	kms	Client Info		36413	33930	27365
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	66	41	59
Chromium	ppm	ASTM D5185(m)	>20	3	2	3
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	2	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	6	4	6
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	3
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	<1

CONTAMINATION

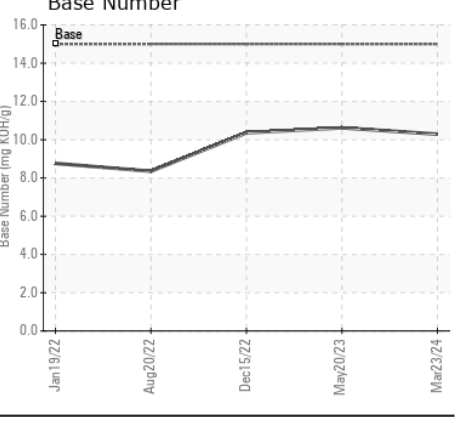
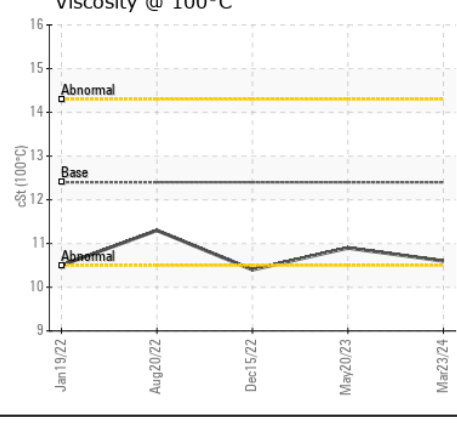
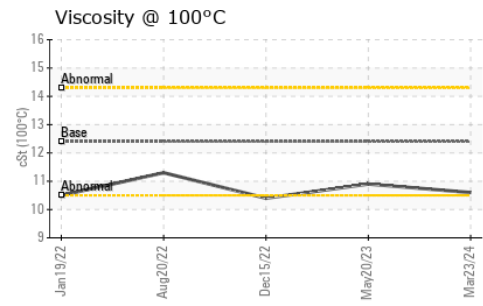
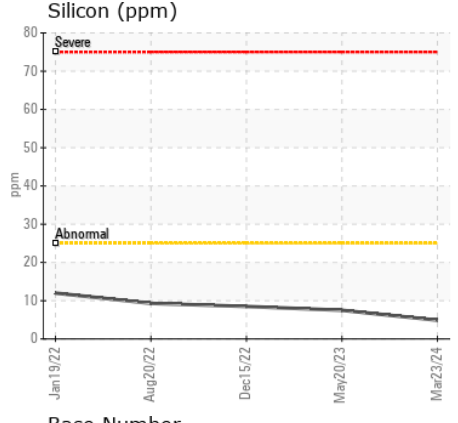
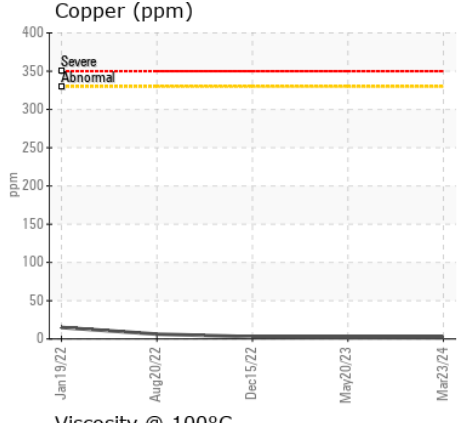
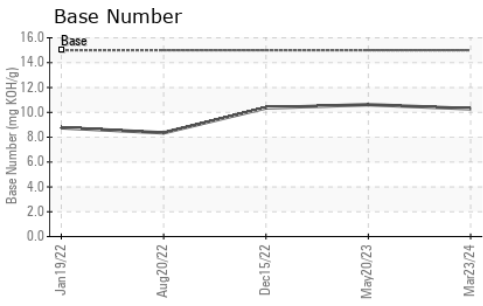
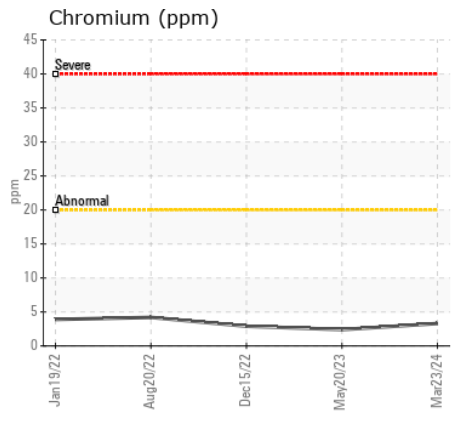
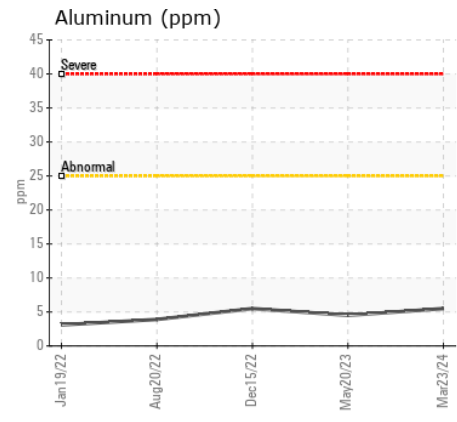
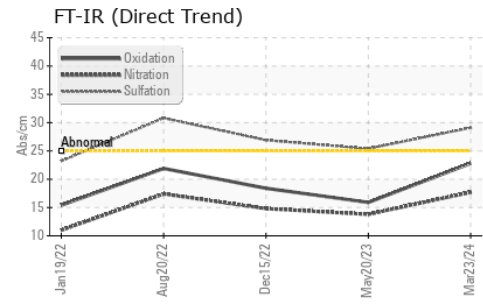
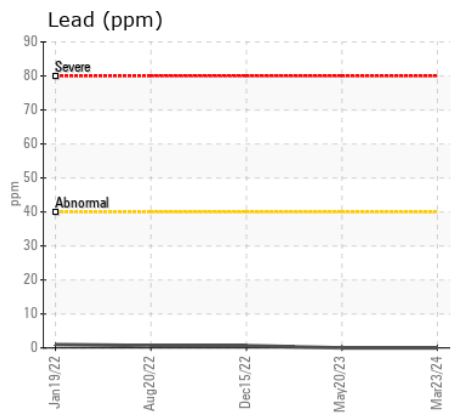
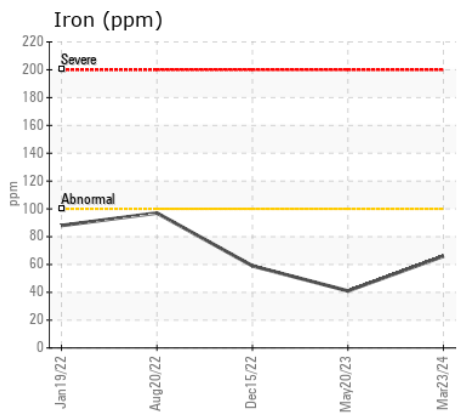
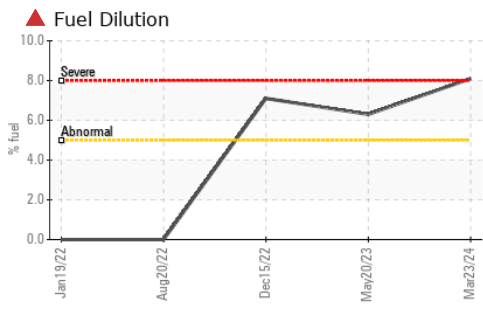
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	8	8
Potassium	ppm	ASTM D5185(m)	>20	2	2	1
Fuel	%	ASTM D7593*	>5	▲ 8.1	▲ 6.3	▲ 7.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.9	0.5	0.6
Nitration	Abs/cm	ASTM D7624*	>20	17.7	13.8	14.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.1	25.4	26.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		3	3	2
Boron	ppm	ASTM D5185(m)		1	1	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	2	1
Manganese	ppm	ASTM D5185(m)		0	<1	1
Magnesium	ppm	ASTM D5185(m)		24	28	27
Calcium	ppm	ASTM D5185(m)	4500	4504	4704	4579
Phosphorus	ppm	ASTM D5185(m)		815	928	898
Zinc	ppm	ASTM D5185(m)	1400	906	989	928
Sulfur	ppm	ASTM D5185(m)		3019	3336	3225
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.8	15.9	18.4
Base Number (BN)	mg KOH/g	ASTM D2896*	15	10.29	10.62	10.36
Visc @ 100°C	cSt	ASTM D7279(m)	12.4	10.6	10.9	▲ 10.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02626551 **Received** : 04 Apr 2024
Lab Number : 02626551 **Tested** : 05 Apr 2024
Unique Number : 5759683 **Diagnosed** : 05 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: PercentFuel)

ROSETOWN FARMING CO
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 Contact: Aaron Wipf

To discuss this sample report, contact Customer Service at 1-800-827-0711.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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