



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD BTXHED74172
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC IV XP SYN BLEND SAE 10W30 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02627780	TR02397636	TR02347176
Sample Date		Client Info		21 Mar 2024	23 Nov 2020	03 Dec 2019
Machine Age	kms	Client Info		584100	281572	204884
Oil Age	kms	Client Info		34020	34688	36248
Filter Age	kms	Client Info		34020	34688	36248
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	31	39	51
Chromium	ppm	ASTM D5185(m)	>20	<1	1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	6	5	7
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	3	4
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	<1

CONTAMINATION

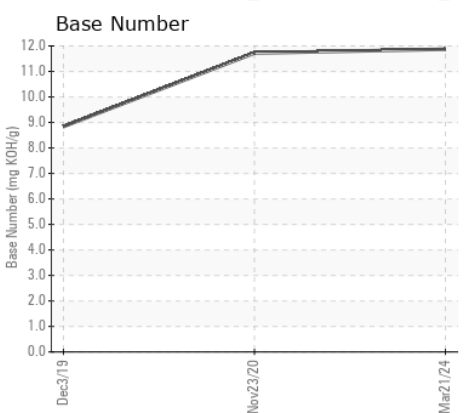
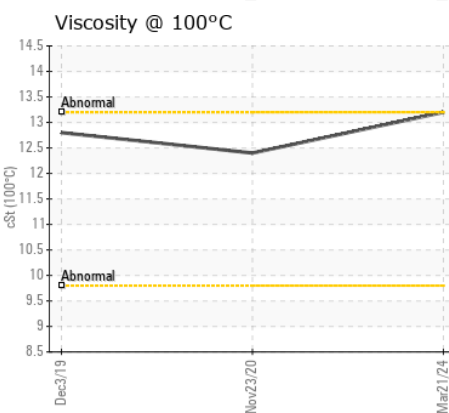
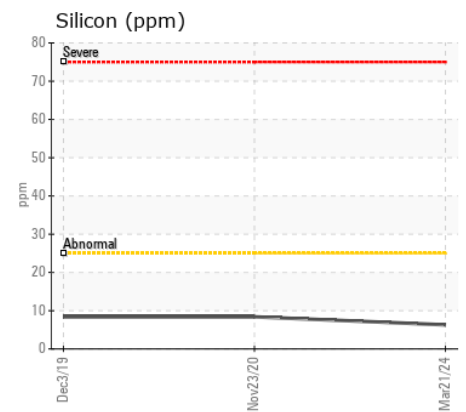
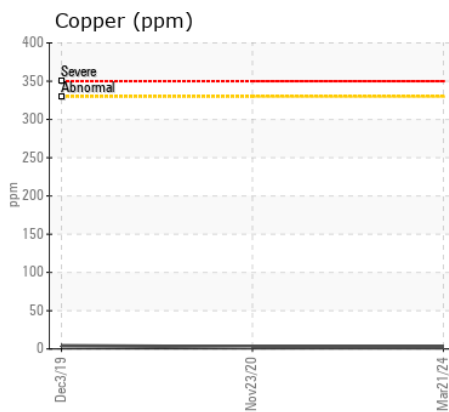
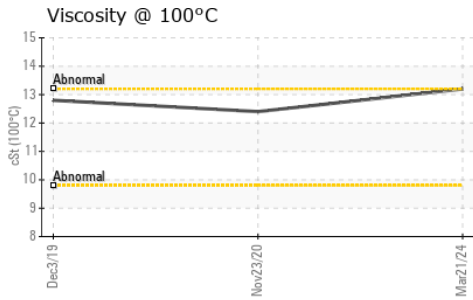
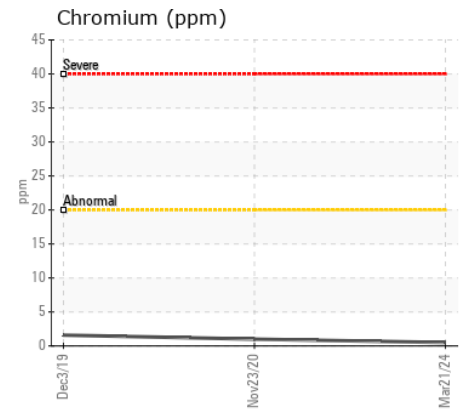
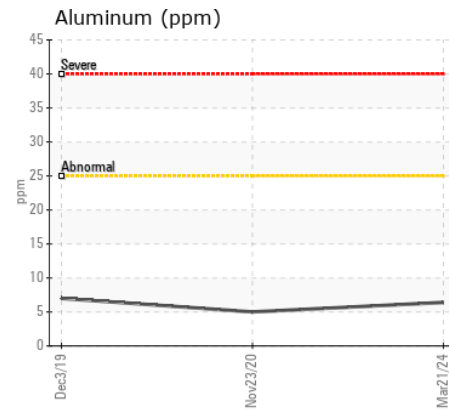
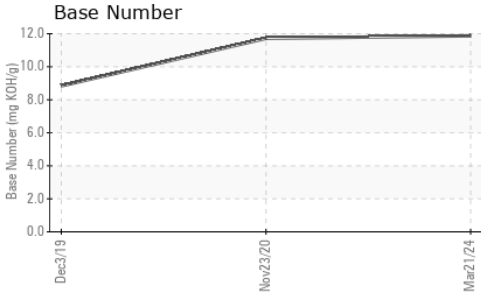
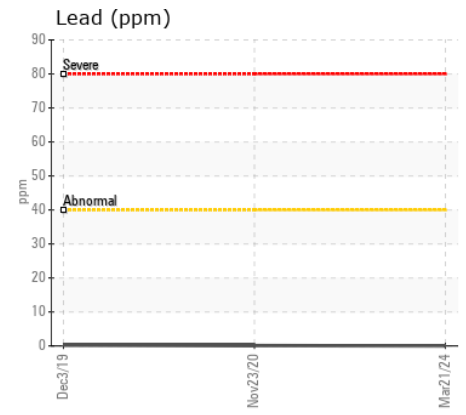
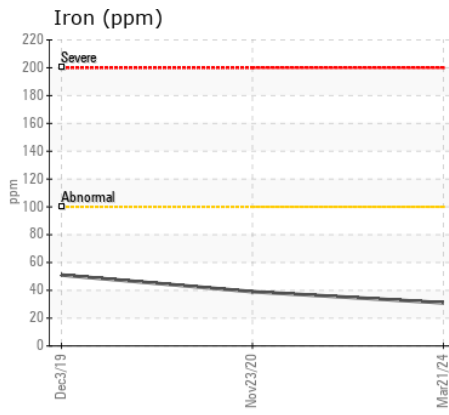
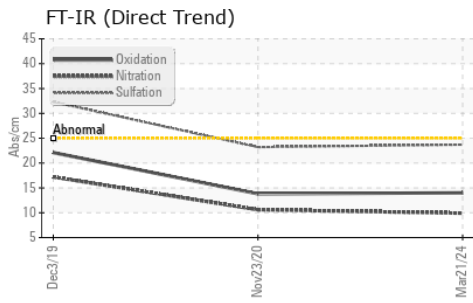
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	8	8
Potassium	ppm	ASTM D5185(m)	>20	2	2	7
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.6	0.9	1
Nitration	Abs/cm	ASTM D7624*	>20	9.9	10.6	17.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.7	23.2	32.3
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 condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		3	2	3
Boron	ppm	ASTM D5185(m)		2	1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	2	1
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		18	19	19
Calcium	ppm	ASTM D5185(m)		4662	4505	4444
Phosphorus	ppm	ASTM D5185(m)		925	867	888
Zinc	ppm	ASTM D5185(m)		1123	1071	1009
Sulfur	ppm	ASTM D5185(m)		3364	3448	3303
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	13.8	22.1
Base Number (BN)	mg KOH/g	ASTM D2896*		11.87	11.72	8.84
Visc @ 100°C	cSt	ASTM D7279(m)		13.2	12.4	12.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02627780 **Received** : 10 Apr 2024
Lab Number : 02627780 **Tested** : 10 Apr 2024
Unique Number : 5760912 **Diagnosed** : 10 Apr 2024 - Wes Davis
Test Package : MOB 2

SOVEREIGN COLONY
 BOX 307
 ROSE TOWN, SK
 CA S0L 2V0
 Contact: DAVID 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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