



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CHEVROLET FARM BOSS

Component
Gasoline Engine

Fluid
TRC PRO-SPEC MULTI VISC 5W30 (6 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06217420	TR06106779	TR05998525
Sample Date		Client Info		12 Jun 2024	28 Feb 2024	28 Oct 2023
Machine Age	mls	Client Info		156228	149383	142035
Oil Age	mls	Client Info		6843	7348	7335
Filter Age	mls	Client Info		6843	7348	7335
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 D5185m	>150	47	45	48
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>5	1	1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>40	6	6	4
Lead	ppm	ASTM D5185m	>50	<1	0	0
Copper	ppm	ASTM D5185m	>155	11	9	13
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

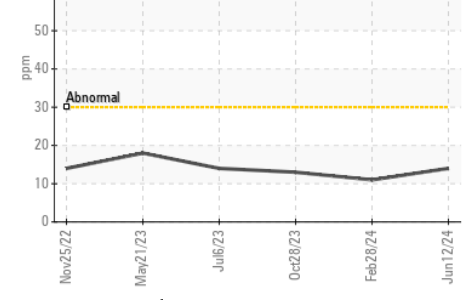
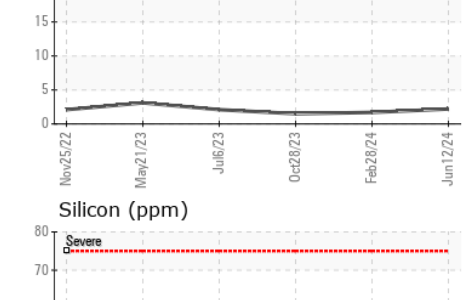
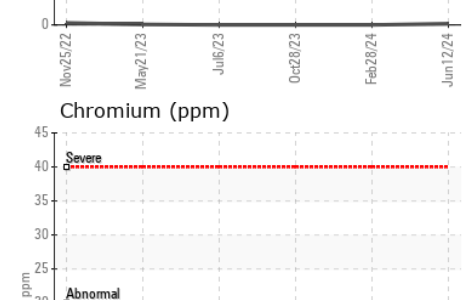
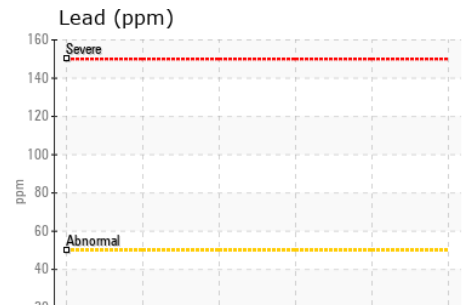
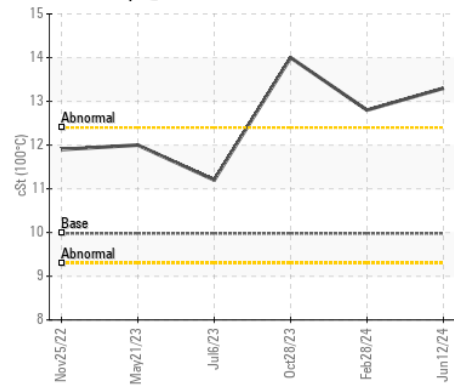
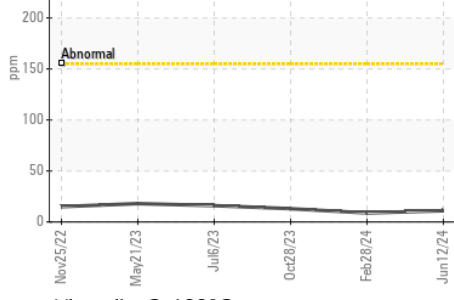
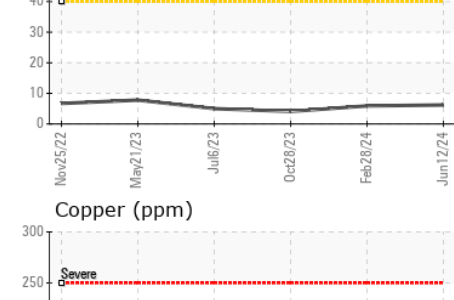
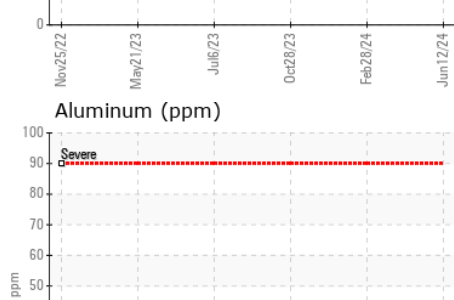
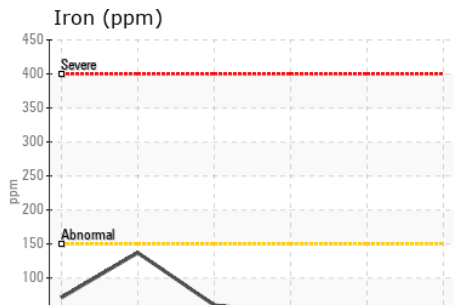
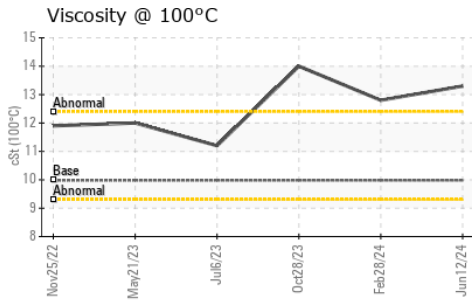
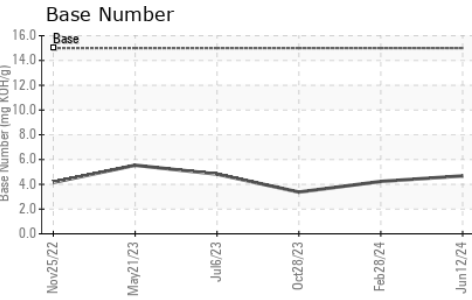
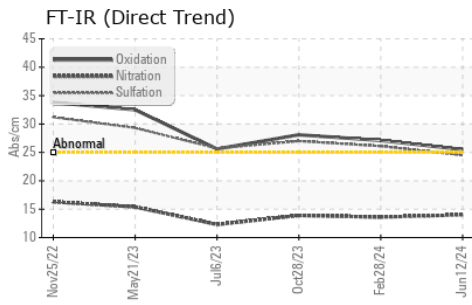
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	14	11	13
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	14.0	13.6	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	26.1	27.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
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 D5185m	>400	2	4	4
Boron	ppm	ASTM D5185m		19	20	10
Barium	ppm	ASTM D5185m		2	<1	0
Molybdenum	ppm	ASTM D5185m		236	207	212
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		384	387	410
Calcium	ppm	ASTM D5185m	4200	1323	1174	1122
Phosphorus	ppm	ASTM D5185m	800	620	561	598
Zinc	ppm	ASTM D5185m	800	721	710	743
Sulfur	ppm	ASTM D5185m		1959	1847	1854
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.5	27.1	28.1
Base Number (BN)	mg KOH/g	ASTM D2896	15	4.68	4.23	3.37
Visc @ 100°C	cSt	ASTM D445	9.98	13.3	12.8	14.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06217420
Lab Number : 06217420
Unique Number : 11090284
Test Package : MOB 2
Received : 21 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Sean Felton

EAGLE CREEK COLONY
 333 2100 ROAD SOUTH BOX 78
 GALATA, MT
 US 59444
 Contact: MARK OPHEIM

Certificate L2367
 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)