



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**CHEVROLET 92**  
 Component  
**Front Gasoline Engine**  
 Fluid  
**TRC PRO-SPEC MULTI VISC 5W30 (5 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06155280	TR05794225	TR05621411
Sample Date		Client Info		20 Mar 2024	13 Feb 2023	06 May 2022
Machine Age	mls	Client Info		45709	37173	31561
Oil Age	mls	Client Info		6536	13528	7916
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	49	159	78
Chromium	ppm	ASTM D5185m	>20	1	5	3
Nickel	ppm	ASTM D5185m	>5	1	2	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>40	4	10	7
Lead	ppm	ASTM D5185m	>50	7	39	1
Copper	ppm	ASTM D5185m	>155	47	113	81
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

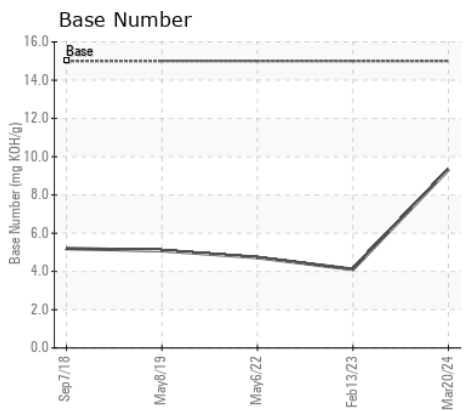
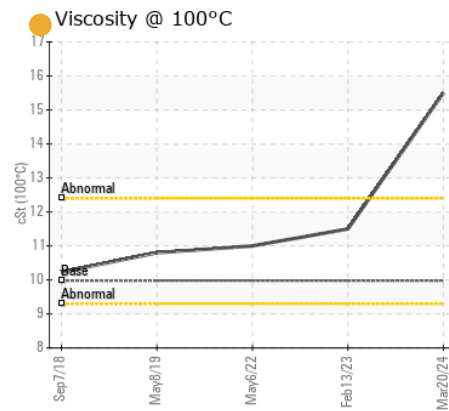
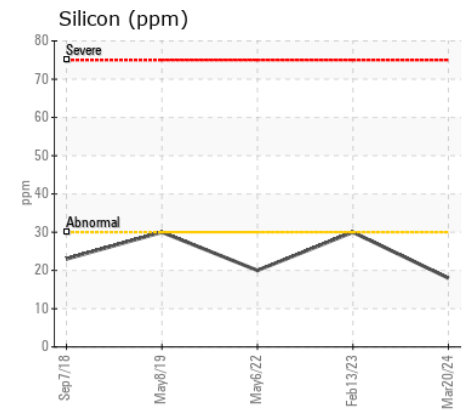
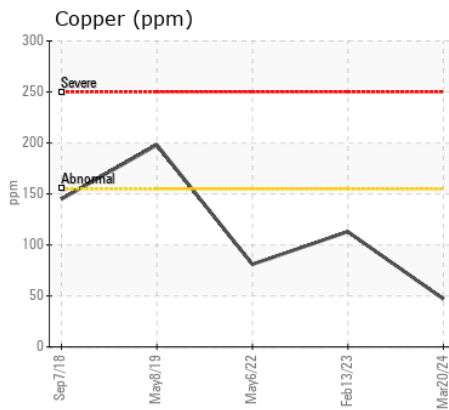
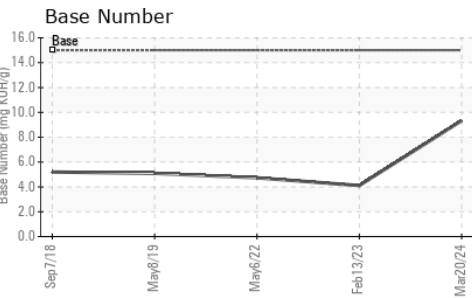
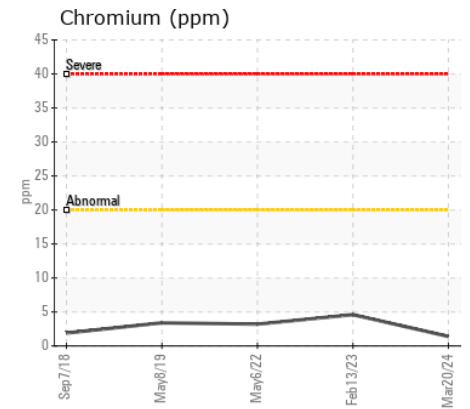
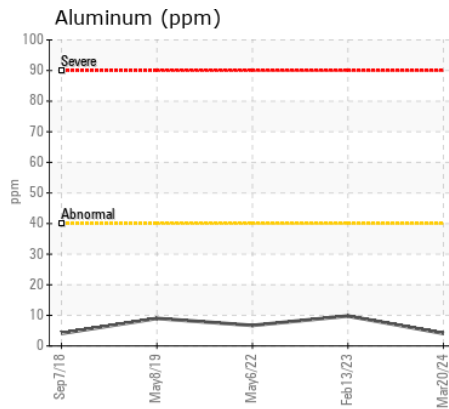
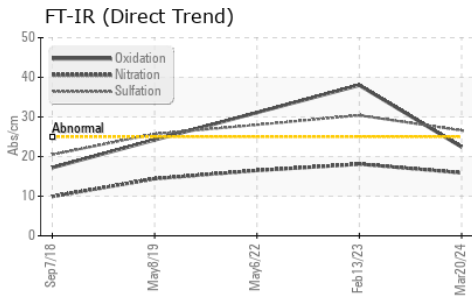
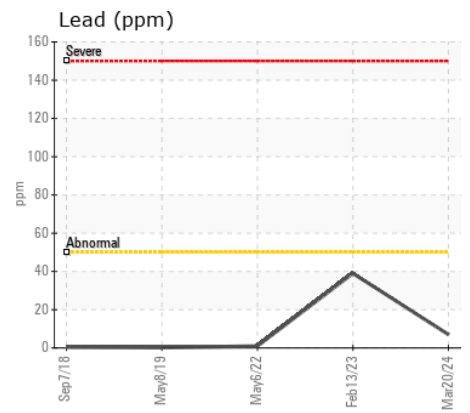
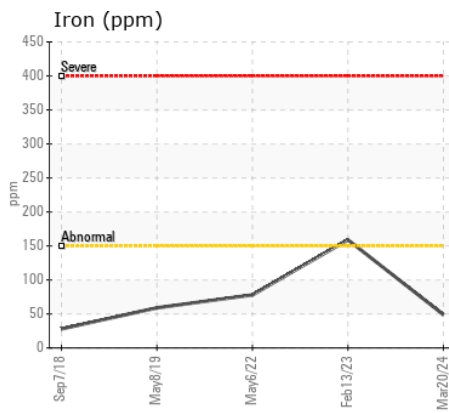
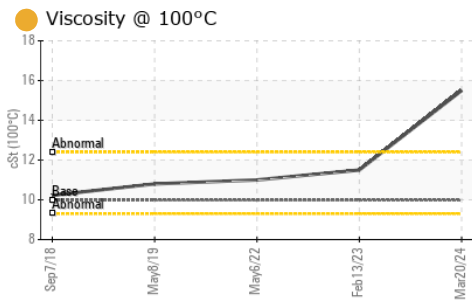
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	18	30	20
Potassium	ppm	ASTM D5185m	>20	4	2	2
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	15.9	18.1	16.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	30.4	28.0
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 oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>400	2	9	6
Boron	ppm	ASTM D5185m		3	23	32
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		125	156	138
Manganese	ppm	ASTM D5185m		2	8	4
Magnesium	ppm	ASTM D5185m		13	15	12
Calcium	ppm	ASTM D5185m	4200	3666	2058	1827
Phosphorus	ppm	ASTM D5185m	800	757	615	595
Zinc	ppm	ASTM D5185m	800	911	840	754
Sulfur	ppm	ASTM D5185m		3714	2182	1938
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4	38.0	31.1
Base Number (BN)	mg KOH/g	ASTM D2896	15	9.33	4.11	4.73
Visc @ 100°C	cSt	ASTM D445	9.98	15.5	11.5	11.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06155280  
**Lab Number** : 06155280  
**Unique Number** : 10990703  
**Test Package** : MOB 2

**Received** : 19 Apr 2024  
**Tested** : 24 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Sean Felton

**COLORADO RIVER UNION HS**  
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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)