



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**CHEVROLET CHEVROLET 2500HD SILVERADO**

Component  
**Front 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		TR06124392	TR05936831	TR05790507
Sample Date		Client Info		12 Mar 2024	17 Aug 2023	25 Feb 2023
Machine Age	mls	Client Info		174008	167025	6517
Oil Age	mls	Client Info		6983	6555	6517
Filter Age	mls	Client Info		6983	6555	6517
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	66	75	90
Chromium	ppm	ASTM D5185m	>20	2	3	4
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	6	6	10
Lead	ppm	ASTM D5185m	>50	33	44	53
Copper	ppm	ASTM D5185m	>155	14	21	20
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

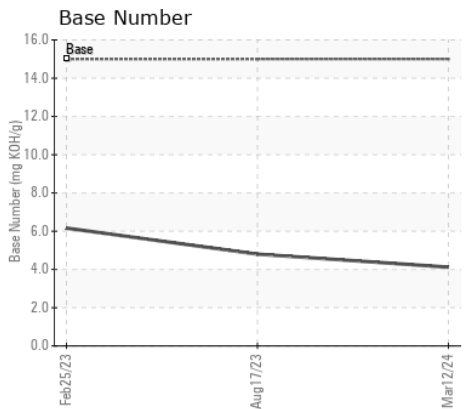
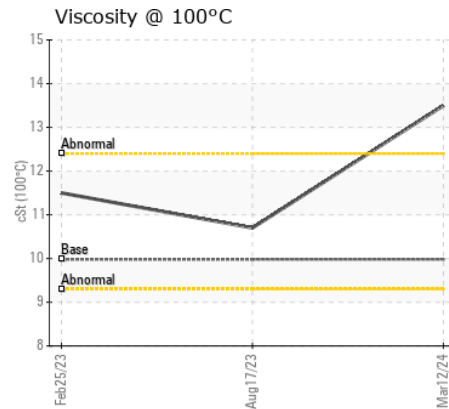
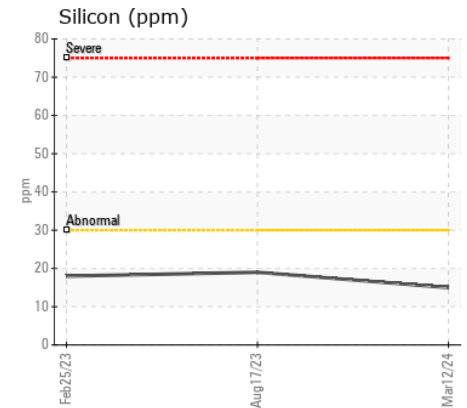
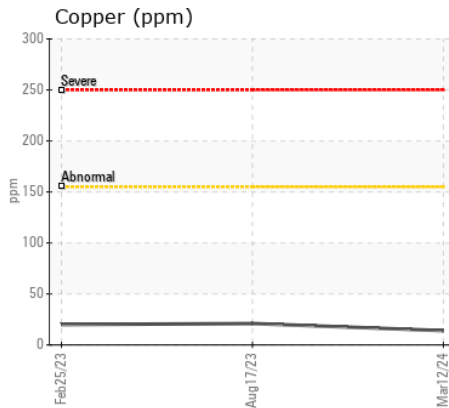
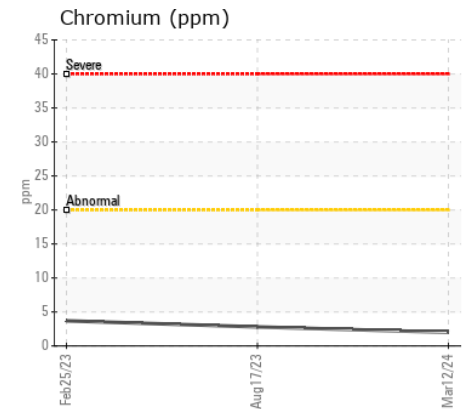
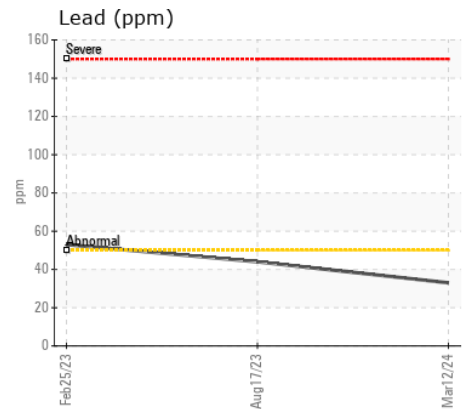
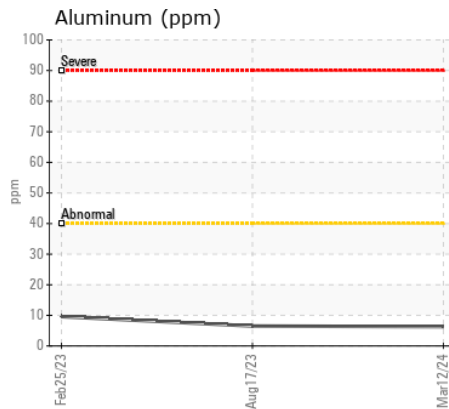
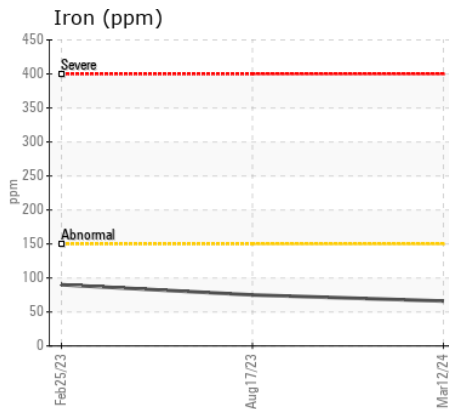
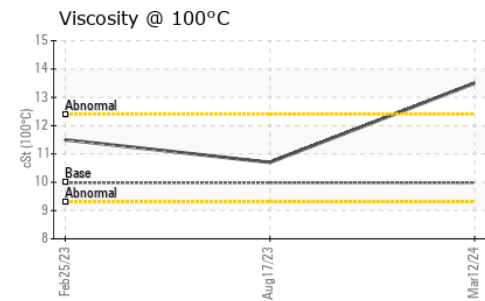
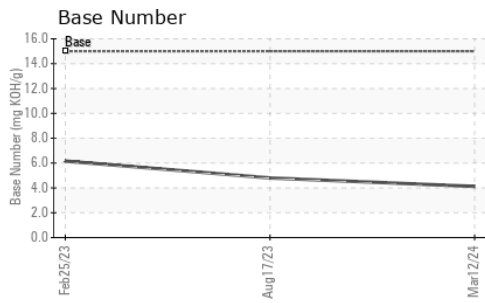
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	15	19	18
Potassium	ppm	ASTM D5185m	>20	0	5	3
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	15.0	12.4	15.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.8	25.9	27.9
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	3	8	9
Boron	ppm	ASTM D5185m		14	19	19
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		204	245	199
Manganese	ppm	ASTM D5185m		<1	2	2
Magnesium	ppm	ASTM D5185m		373	484	370
Calcium	ppm	ASTM D5185m	4200	1284	1341	1206
Phosphorus	ppm	ASTM D5185m	800	596	649	557
Zinc	ppm	ASTM D5185m	800	715	825	711
Sulfur	ppm	ASTM D5185m		2292	2379	1918
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.4	25.5	29.0
Base Number (BN)	mg KOH/g	ASTM D2896	15	4.12	4.80	6.16
Visc @ 100°C	cSt	ASTM D445	9.98	13.5	10.7	11.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06124392  
**Lab Number** : 06124392  
**Unique Number** : 10938543  
**Test Package** : MOB 2

**Received** : 20 Mar 2024  
**Tested** : 21 Mar 2024  
**Diagnosed** : 23 Mar 2024 - Don Baldrige

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

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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