



**T R A A P**  
Texas Refinery Advanced Analysis Program

**OIL ANALYSIS REPORT**

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**DODGE WHITE DODGE**  
Component  
**Diesel Engine**  
Fluid  
**TRC PRO-SPEC IV XP SYN BLEND SAE 10W30 (3 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR06102561</b>	TR06069171	TR05998521
Sample Date		Client Info		<b>09 Feb 2024</b>	08 Jan 2024	19 Oct 2023
Machine Age	mls	Client Info		<b>106727</b>	101970	94518
Oil Age	mls	Client Info		<b>4757</b>	7452	8763
Filter Age	mls	Client Info		<b>4757</b>	7452	8763
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>14</b>	30	29
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	9	8
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

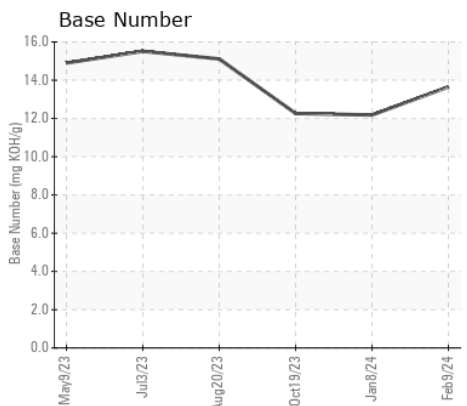
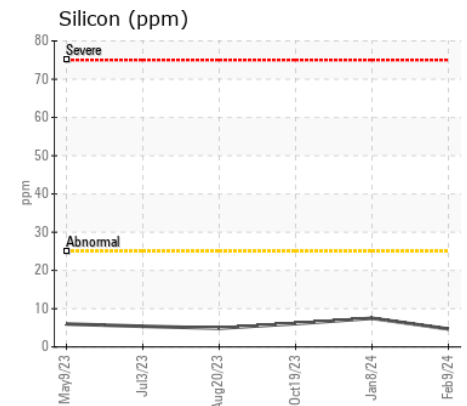
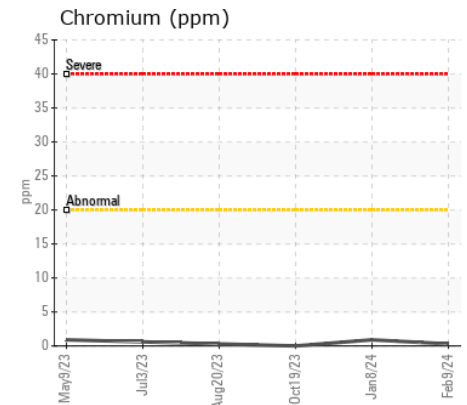
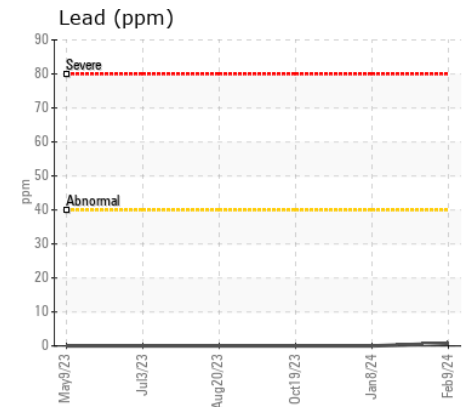
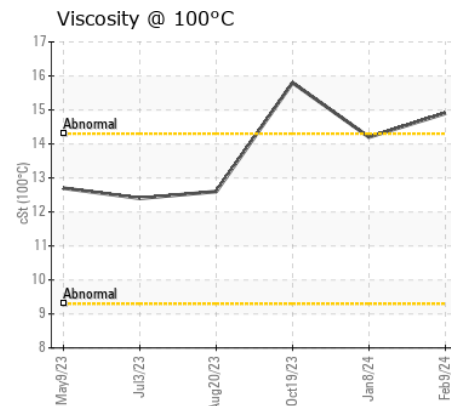
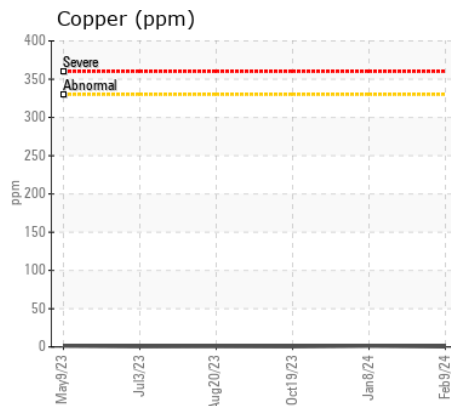
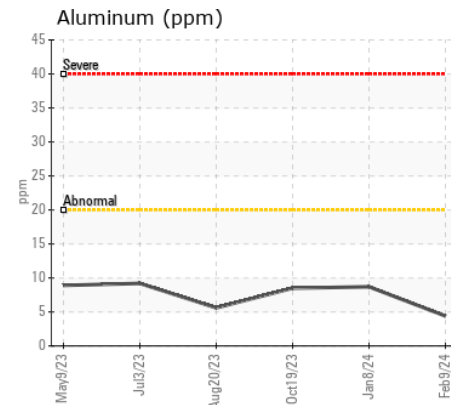
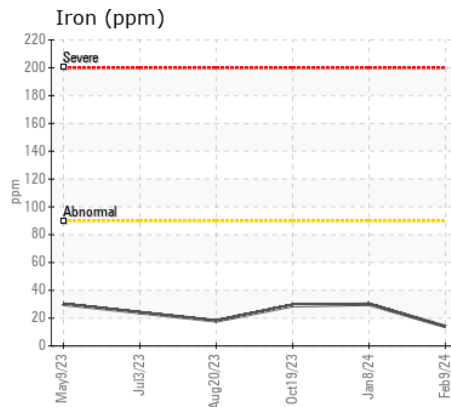
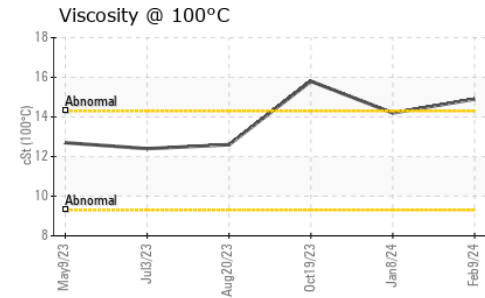
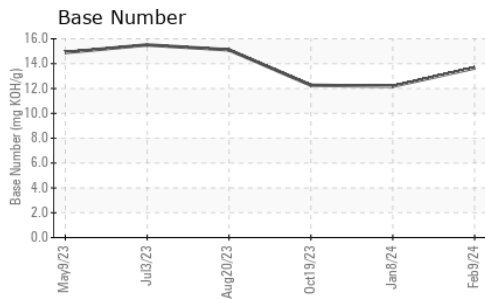
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	8	6
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	8	8
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.4</b>	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	12.0	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.6</b>	22.4	23.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>&lt;1</b>	2	3
Boron	ppm	ASTM D5185m		<b>1</b>	<1	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>20</b>	22	21
Calcium	ppm	ASTM D5185m		<b>4636</b>	5292	4303
Phosphorus	ppm	ASTM D5185m		<b>959</b>	1124	962
Zinc	ppm	ASTM D5185m		<b>1249</b>	1377	1165
Sulfur	ppm	ASTM D5185m		<b>4564</b>	5339	3971
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.2</b>	14.7	15.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>13.65</b>	12.18	12.26
Visc @ 100°C	cSt	ASTM D445		<b>14.9</b>	14.2	15.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TR06102561

Lab Number : 06102561

Unique Number : 10900791

Test Package : MOB 2

Received : 27 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 29 Feb 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)

T:

F: (406)432-2582