



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**DODGE 06 DODGE RAM 3500**

Component  
**Diesel Engine**

Fluid  
**TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (12 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05958235	TR05838617	TR05661696
Sample Date		Client Info		08 Sep 2023	06 Apr 2023	27 Sep 2022
Machine Age	mls	Client Info		315000	307500	300000
Oil Age	mls	Client Info		15000	7500	25000
Filter Age	mls	Client Info		7500	7500	5000
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>130	45	28	78
Chromium	ppm	ASTM D5185m	>10	2	1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	3	6
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>125	5	3	19
Tin	ppm	ASTM D5185m	>4	<1	0	<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**

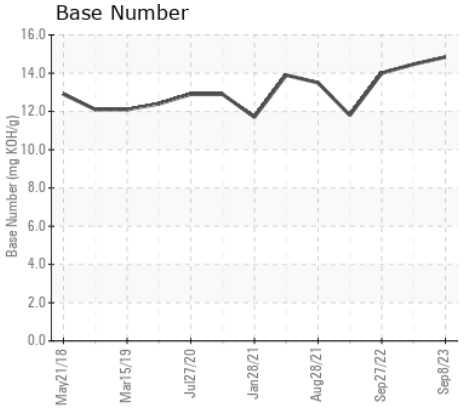
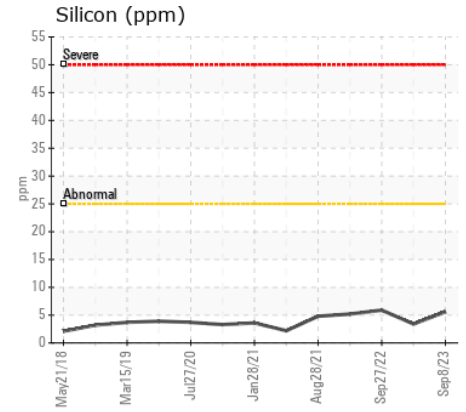
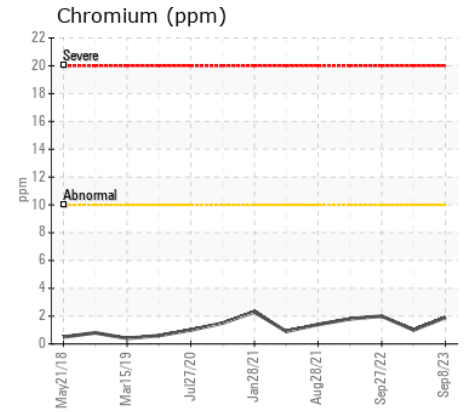
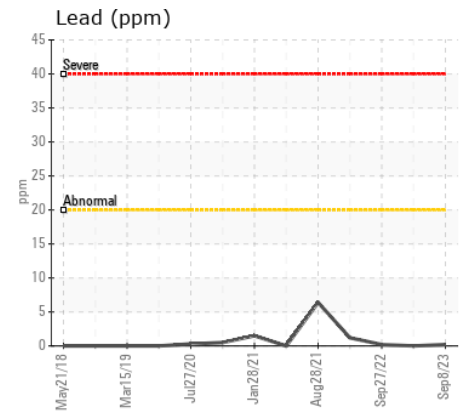
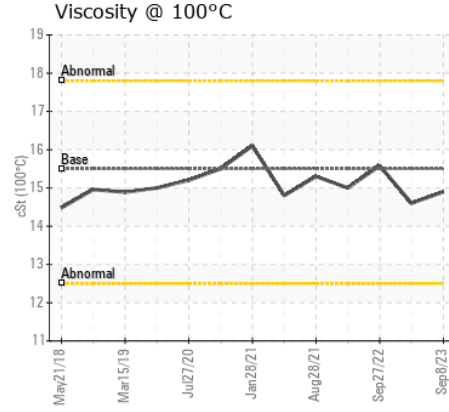
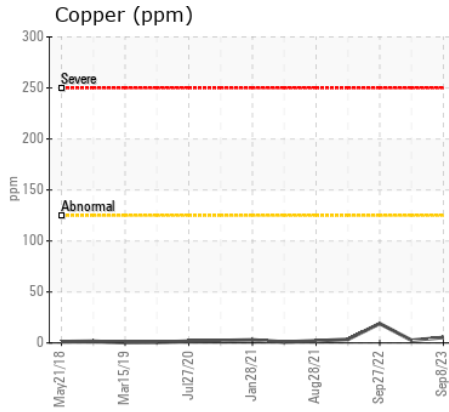
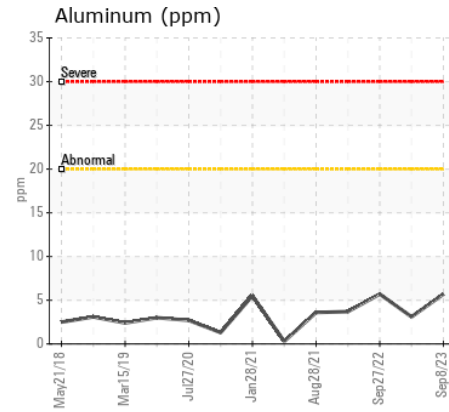
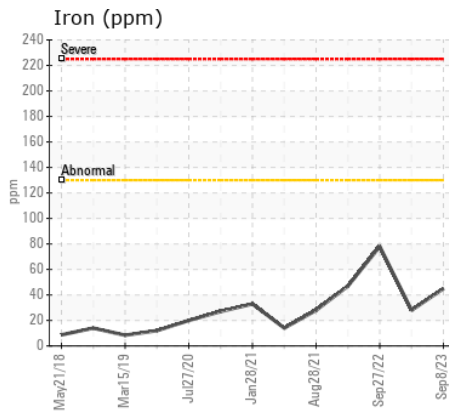
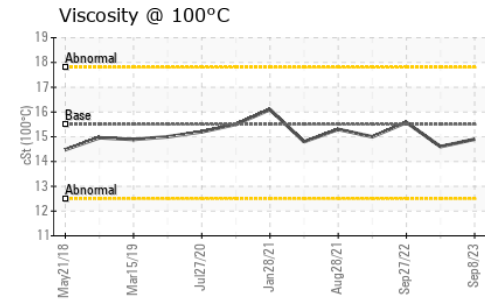
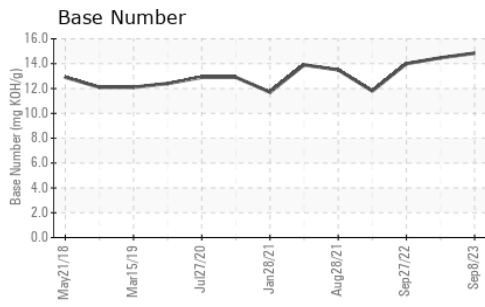
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	3	6
Potassium	ppm	ASTM D5185m	>20	4	0	4
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.7	0.8	1.8
Nitration	Abs/cm	*ASTM D7624	>20	10.1	7.6	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	18.2	26.4
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		2	2	4
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		19	20	19
Calcium	ppm	ASTM D5185m		5573	4980	5421
Phosphorus	ppm	ASTM D5185m		1034	971	1095
Zinc	ppm	ASTM D5185m		1278	1156	1335
Sulfur	ppm	ASTM D5185m		4880	4965	5675
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	10.5	14.9
Base Number (BN)	mg KOH/g	ASTM D2896		14.84	14.47	14.0
Visc @ 100°C	cSt	ASTM D445	15.5	14.9	14.6	15.58



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR05958235  
**Lab Number** : 05958235  
**Unique Number** : 10659448  
**Test Package** : MOB 2

**Received** : 21 Sep 2023  
**Tested** : 22 Sep 2023  
**Diagnosed** : 22 Sep 2023 - Wes Davis

**ERIC JORDAN**  
 605 BOYD ST  
 NEWPORT, AR  
 US 72112-8049

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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)

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F: