



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**DODGE DODGE RAM 2500HD**  
 Component  
**Diesel Engine**  
 Fluid  
**TRC PRO-SPEC V SYN BLEND 10W30 (11 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02640689	TR02618270	TR02591345
Sample Date		Client Info		31 May 2024	02 Feb 2024	13 Oct 2023
Machine Age	kms	Client Info		150330	136982	123677
Oil Age	kms	Client Info		13348	13305	21035
Filter Age	kms	Client Info		13348	13305	21035
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	ABNORMAL	SEVERE

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	29	▲ 94	▲ 373
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	4
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	8	11	28
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	1	4	15
Tin	ppm	ASTM D5185(m)	>15	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

**CONTAMINATION**

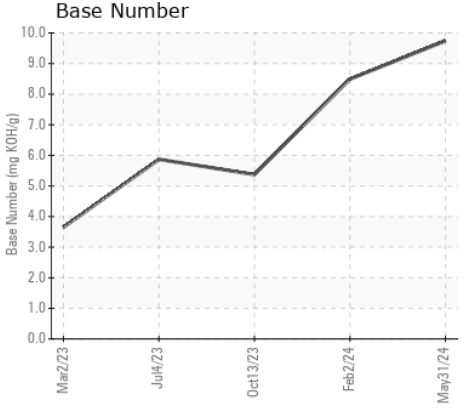
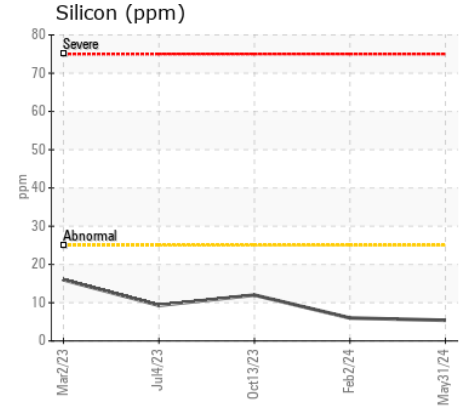
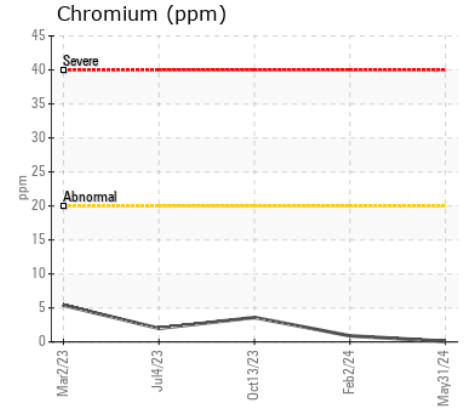
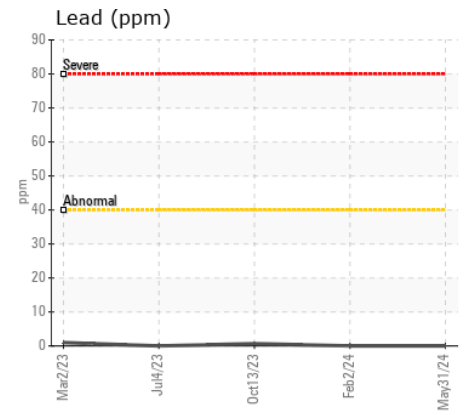
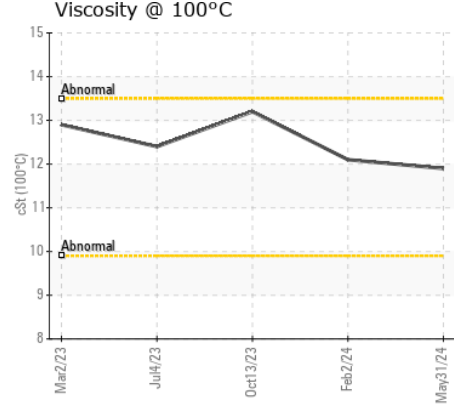
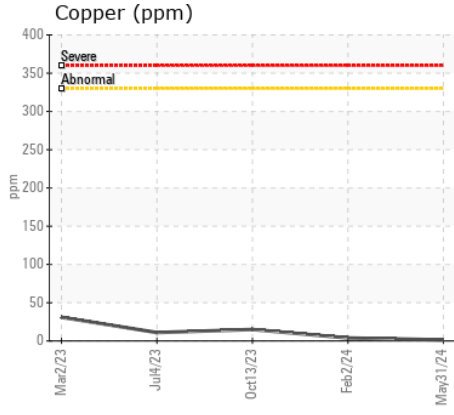
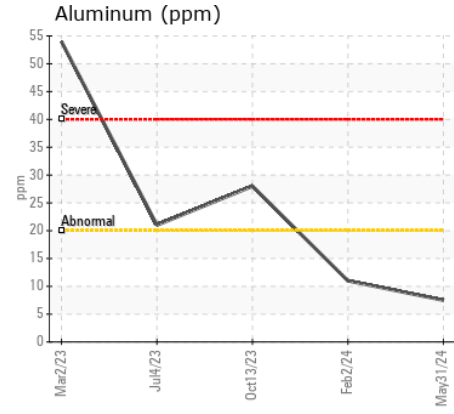
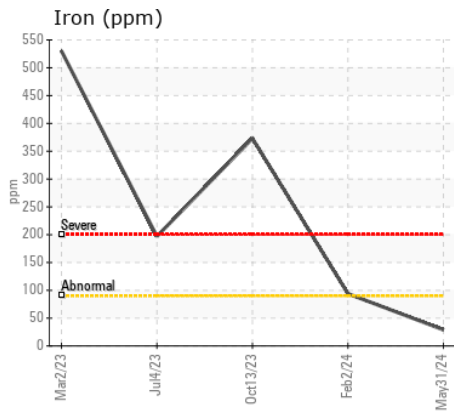
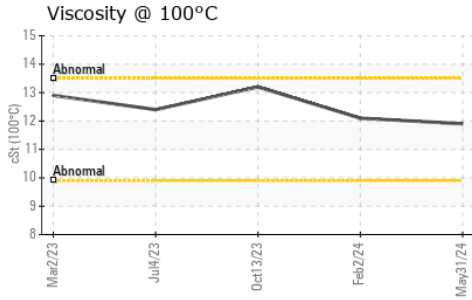
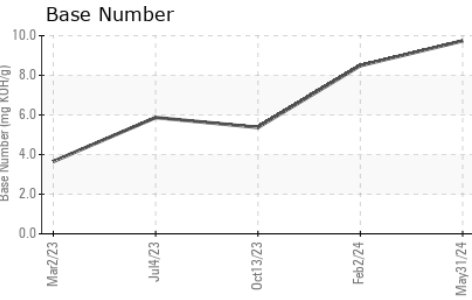
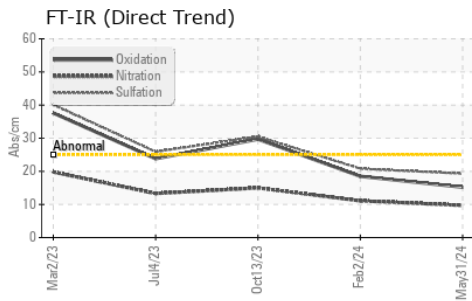
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	6	12
Potassium	ppm	ASTM D5185(m)	>20	4	9	30
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>6	0.2	0.2	1.1
Nitration	Abs/cm	ASTM D7624*	>20	9.7	11.1	15.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	20.8	30.5
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 D5185(m)		5	5	9
Boron	ppm	ASTM D5185(m)		58	52	32
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		248	244	263
Manganese	ppm	ASTM D5185(m)		<1	<1	4
Magnesium	ppm	ASTM D5185(m)		21	24	47
Calcium	ppm	ASTM D5185(m)		2339	2341	2556
Phosphorus	ppm	ASTM D5185(m)		1045	1058	1127
Zinc	ppm	ASTM D5185(m)		1228	1220	1387
Sulfur	ppm	ASTM D5185(m)		3549	3709	3304
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.2	18.5	29.7
Base Number (BN)	mg KOH/g	ASTM D2896*		9.74	8.49	5.37
Visc @ 100°C	cSt	ASTM D7279(m)		11.9	12.1	13.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : TR02640689 **Received** : 10 Jun 2024  
**Lab Number** : 02640689 **Tested** : 11 Jun 2024  
**Unique Number** : 5789851 **Diagnosed** : 11 Jun 2024 - Wes Davis  
**Test Package** : MOB 2

**LONDON GARTNER**  
 BOX 37, SITE 505  
 SASKATOON, SK  
 CA S7K 3J8  
 Contact: LONDON

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: (639)571-8565  
 F: