



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**DODGE CHRIS 2500**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 5W40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02644727	---	---
Sample Date		Client Info		19 Jun 2024	---	---
Machine Age	kms	Client Info		48322	---	---
Oil Age	kms	Client Info		11000	---	---
Filter Age	kms	Client Info		11000	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	130	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>20	28	---	---
Lead	ppm	ASTM D5185(m)	>40	4	---	---
Copper	ppm	ASTM D5185(m)	>330	154	---	---
Tin	ppm	ASTM D5185(m)	>15	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

## CONTAMINATION

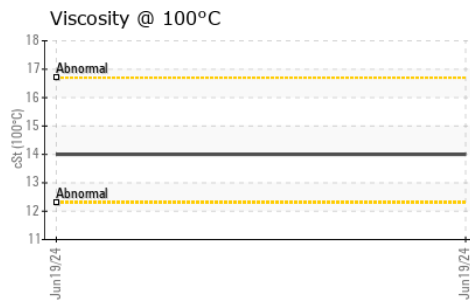
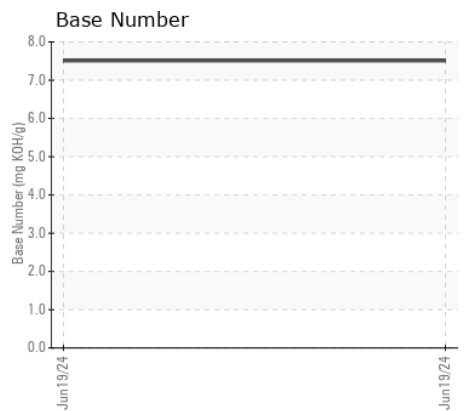
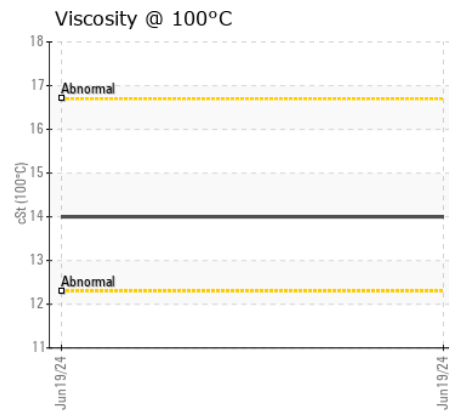
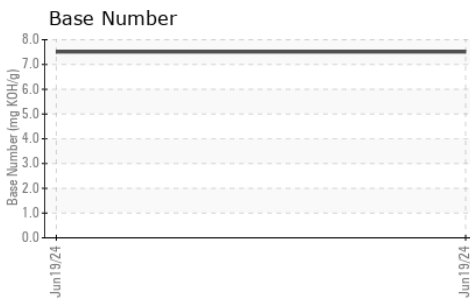
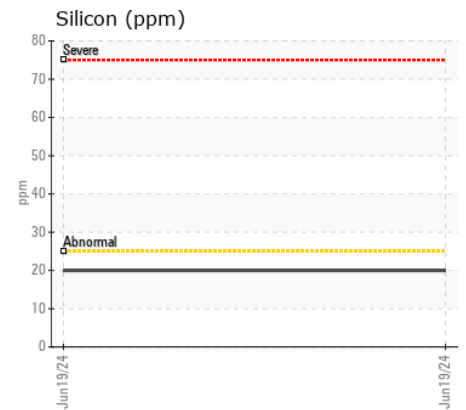
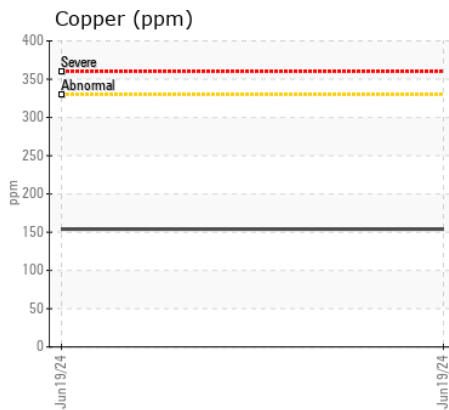
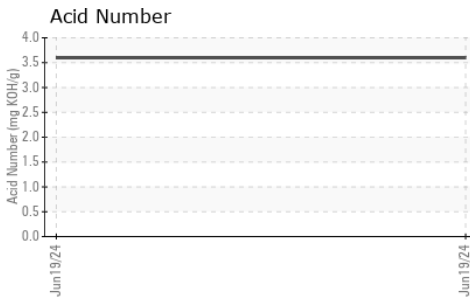
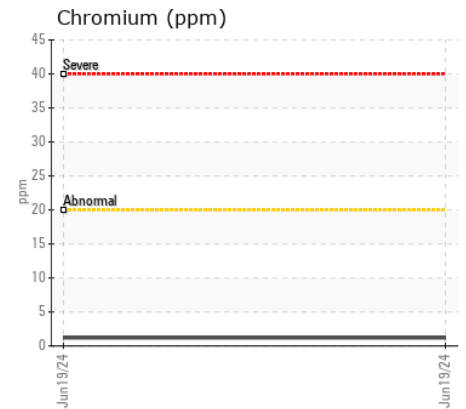
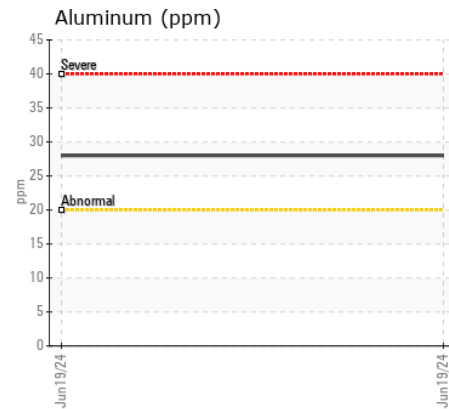
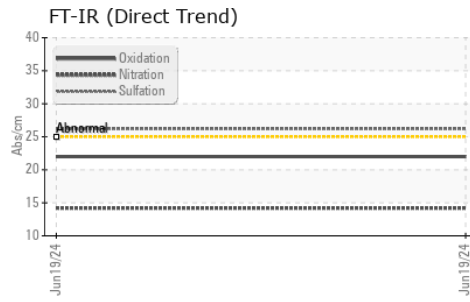
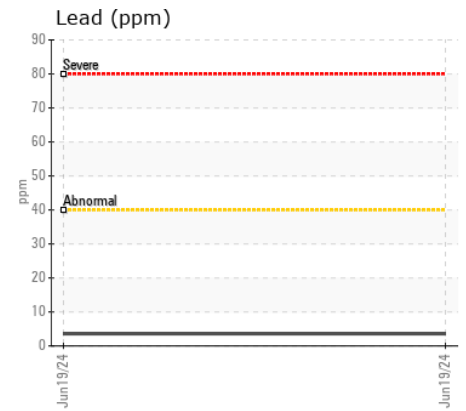
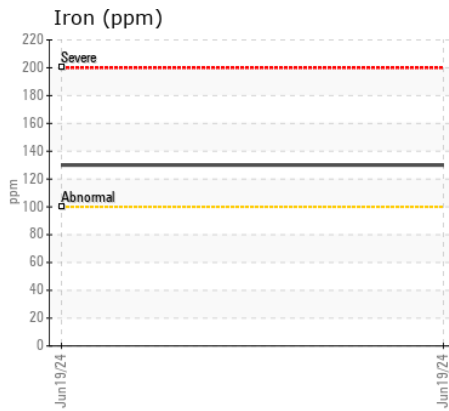
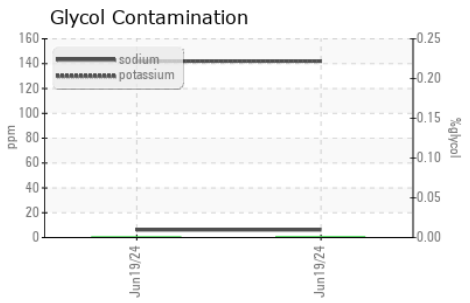
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	20	---	---
Potassium	ppm	ASTM D5185(m)	>20	142	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	1	---	---
Nitration	Abs/cm	ASTM D7624*	>20	14.2	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.2	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		6	---	---
Boron	ppm	ASTM D5185(m)		24	---	---
Barium	ppm	ASTM D5185(m)		3	---	---
Molybdenum	ppm	ASTM D5185(m)		191	---	---
Manganese	ppm	ASTM D5185(m)		3	---	---
Magnesium	ppm	ASTM D5185(m)		232	---	---
Calcium	ppm	ASTM D5185(m)		2294	---	---
Phosphorus	ppm	ASTM D5185(m)		938	---	---
Zinc	ppm	ASTM D5185(m)		1161	---	---
Sulfur	ppm	ASTM D5185(m)		3057	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.0	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		3.60	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		7.51	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		96.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		14.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		148	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : TR02644727 **Received** : 28 Jun 2024  
**Lab Number** : **02644727** **Tested** : 02 Jul 2024  
**Unique Number** : 5802266 **Diagnosed** : 02 Jul 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: Glycol, KV40, TAN Auto, TAN Man, VI, Visual )

**POLAR ENTERPRISE**  
 BOX 36, GRP 8  
 HADASHVILLE, MB  
 CA R0E 0X0  
 Contact: Trevor Panych

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: