



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE PT-7
 Component
Diesel Engine
 Fluid
TRC MOLY XL PROSPEC III 15W40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02644729	TR02562024	---
Sample Date		Client Info		06 Jun 2024	09 May 2023	---
Machine Age	kms	Client Info		465857	428400	---
Oil Age	kms	Client Info		15000	17000	---
Filter Age	kms	Client Info		15000	17000	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	75	▲ 99	---
Chromium	ppm	ASTM D5185(m)	>20	5	3	---
Nickel	ppm	ASTM D5185(m)	>2	<1	1	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	6	9	---
Lead	ppm	ASTM D5185(m)	>40	2	2	---
Copper	ppm	ASTM D5185(m)	>330	3	4	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---

CONTAMINATION

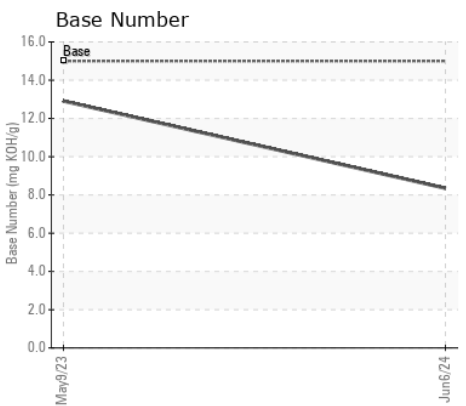
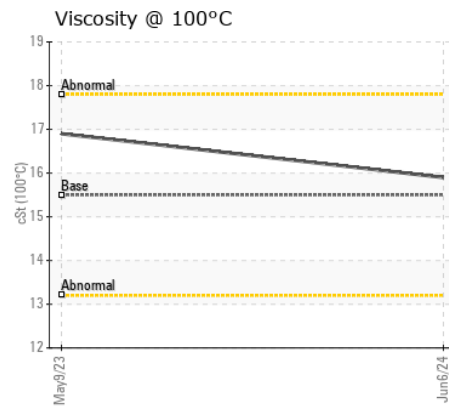
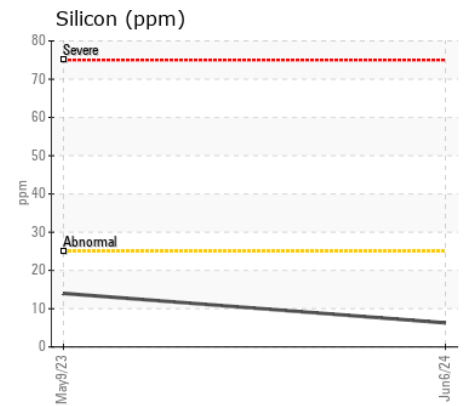
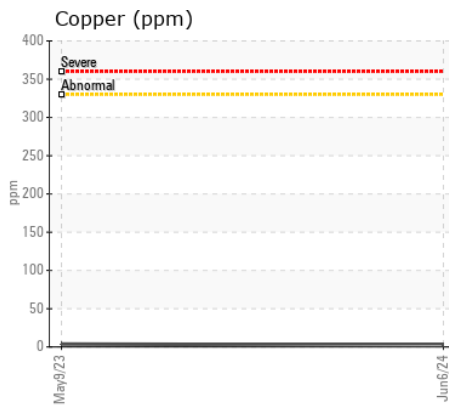
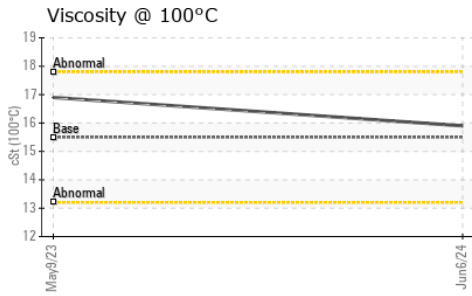
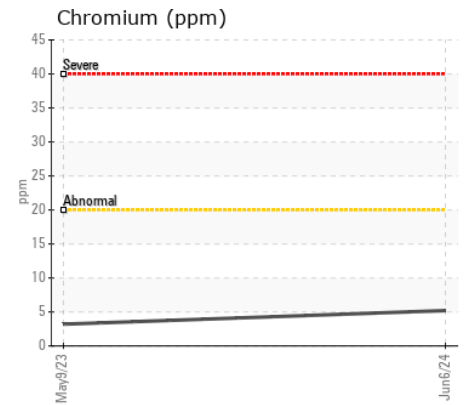
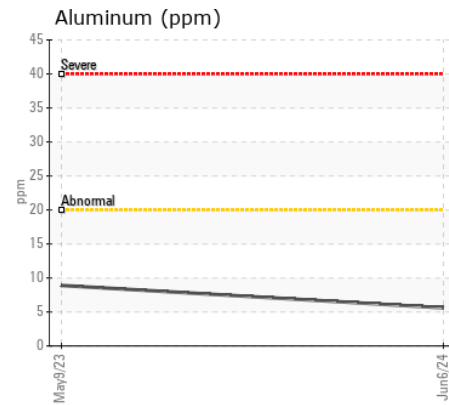
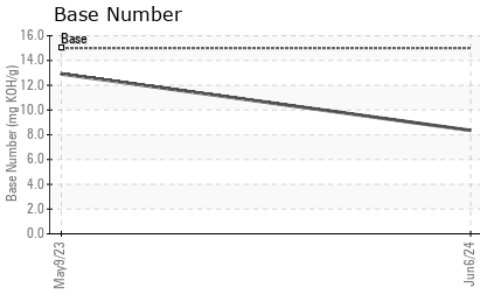
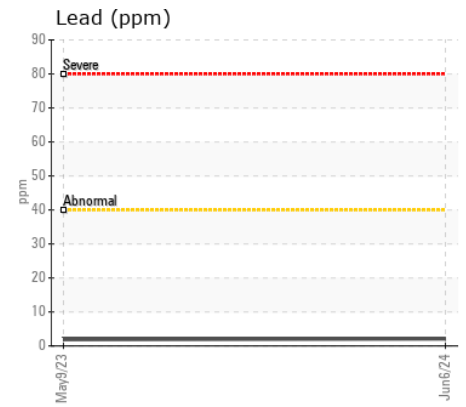
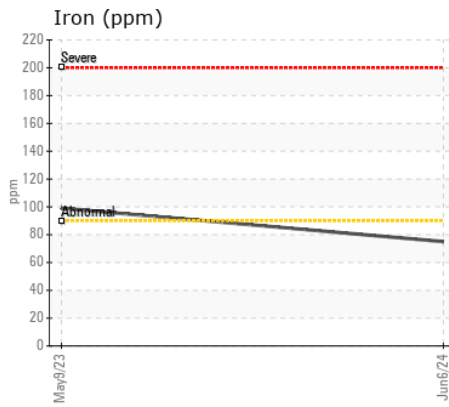
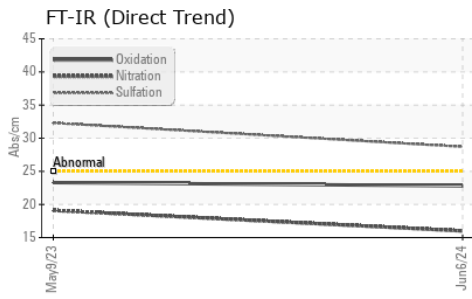
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	14	---
Potassium	ppm	ASTM D5185(m)	>20	2	4	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	2.1	3.1	---
Nitration	Abs/cm	ASTM D7624*	>20	16.0	19.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.7	32.3	---
Emulsified Water	scalar	Visual*	>0.2	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)		3	5	---
Boron	ppm	ASTM D5185(m)		38	43	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		234	224	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		47	28	---
Calcium	ppm	ASTM D5185(m)	4500	2705	5246	---
Phosphorus	ppm	ASTM D5185(m)		1014	1207	---
Zinc	ppm	ASTM D5185(m)	1400	1215	1277	---
Sulfur	ppm	ASTM D5185(m)		3491	3960	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.8	23.3	---
Base Number (BN)	mg KOH/g	ASTM D2896*	15	8.35	12.91	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	15.9	▲ 16.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02644729 **Received** : 28 Jun 2024
Lab Number : 02644729 **Tested** : 28 Jun 2024
Unique Number : 5802268 **Diagnosed** : 28 Jun 2024 - Wes Davis
Test Package : MOB 2

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: