



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MERCEDES-BENZ W1Z4EFVY3KP193850
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (13 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02632483	TR02497102	---
Sample Date		Client Info		15 Apr 2024	02 Jun 2022	---
Machine Age	kms	Client Info		139271	82916	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	29	28	---
Chromium	ppm	ASTM D5185(m)	>20	2	1	---
Nickel	ppm	ASTM D5185(m)	>50	<1	1	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>50	9	8	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	2	5	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

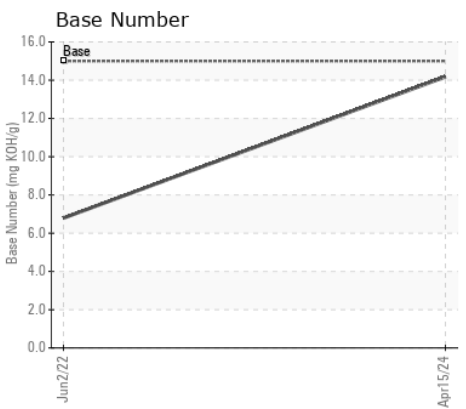
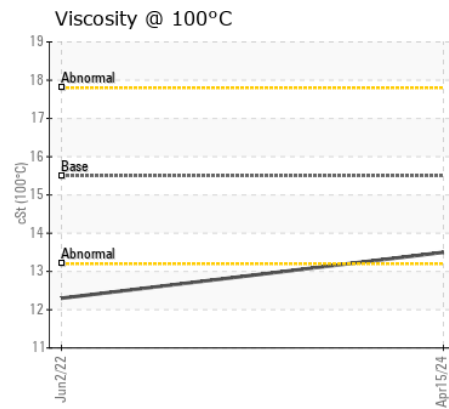
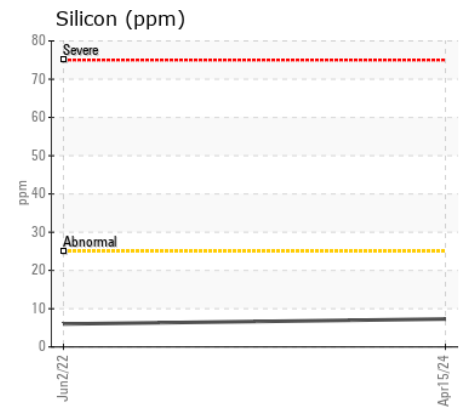
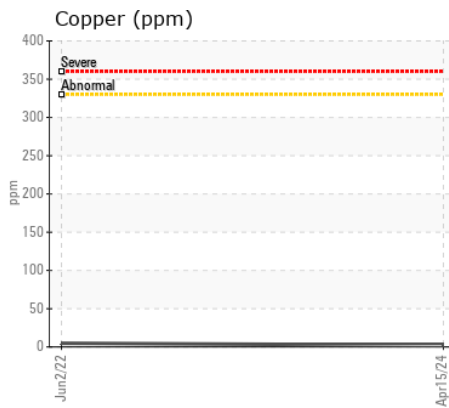
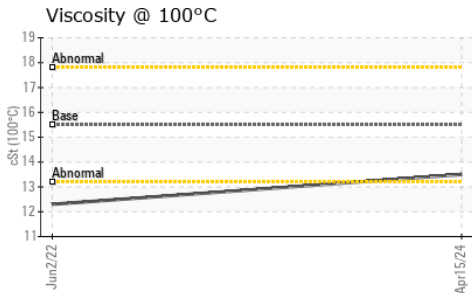
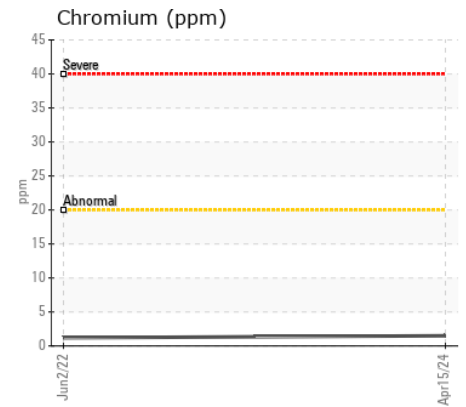
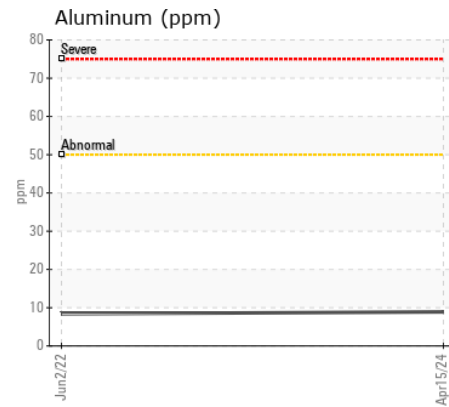
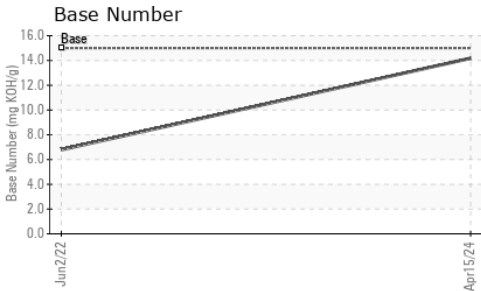
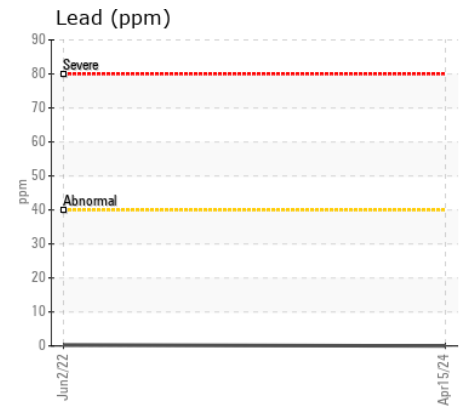
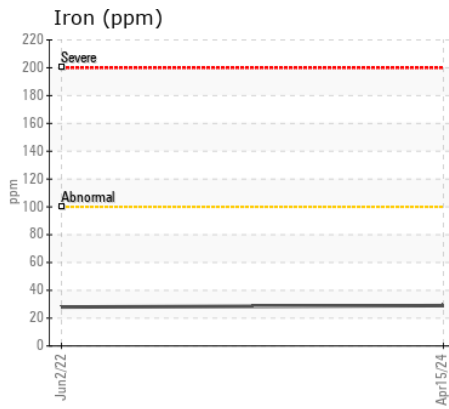
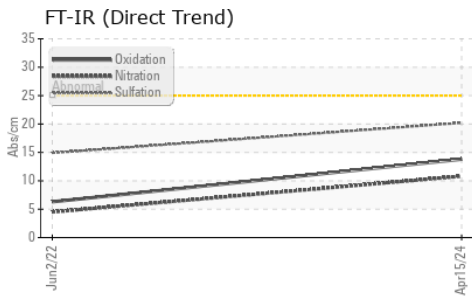
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	6	---
Potassium	ppm	ASTM D5185(m)	>20	2	7	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>3	0.4	0	---
Nitration	Abs/cm	ASTM D7624*	>20	10.8	4.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	14.9	---
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)		2	2	---
Boron	ppm	ASTM D5185(m)		2	3	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		0	1	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		23	36	---
Calcium	ppm	ASTM D5185(m)	4500	5030	2170	---
Phosphorus	ppm	ASTM D5185(m)		942	706	---
Zinc	ppm	ASTM D5185(m)	1400	1064	798	---
Sulfur	ppm	ASTM D5185(m)		3374	2178	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.8	6.3	---
Base Number (BN)	mg KOH/g	ASTM D2896*	15	14.18	6.79	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.5	12.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02632483
Lab Number : 02632483
Unique Number : 5773636
Test Package : MOB 2
Received : 01 May 2024
Tested : 02 May 2024
Diagnosed : 02 May 2024 - Wes Davis

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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)