



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JEEP CHRYSLER
 Component
Gasoline Engine
 Fluid
TRC PRO-SPEC MULTI-VIS SB 5W20 (5 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02631586	TR02552052	---
Sample Date		Client Info		31 Mar 2024	05 Apr 2023	---
Machine Age	kms	Client Info		49641	16096	---
Oil Age	kms	Client Info		16087	9096	---
Filter Age	kms	Client Info		16087	9096	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	72	26	---
Chromium	ppm	ASTM D5185(m)	>20	3	1	---
Nickel	ppm	ASTM D5185(m)	>5	1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>40	7	5	---
Lead	ppm	ASTM D5185(m)	>50	0	<1	---
Copper	ppm	ASTM D5185(m)	>155	12	10	---
Tin	ppm	ASTM D5185(m)	>10	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

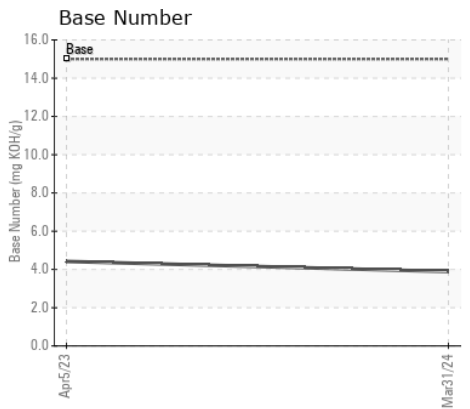
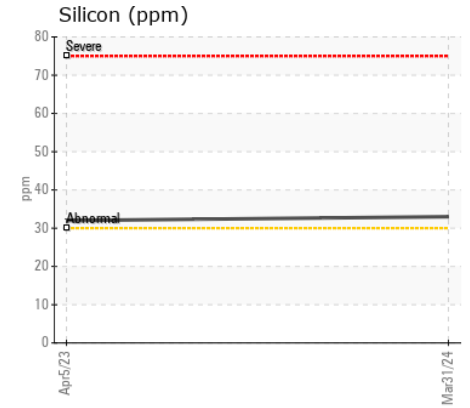
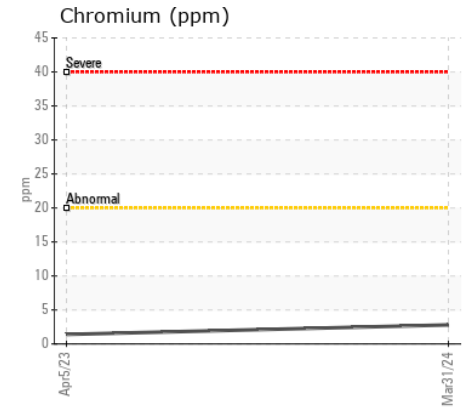
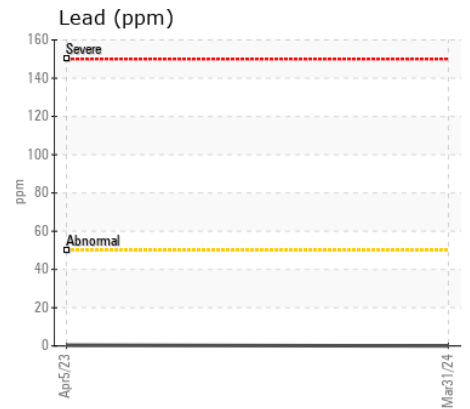
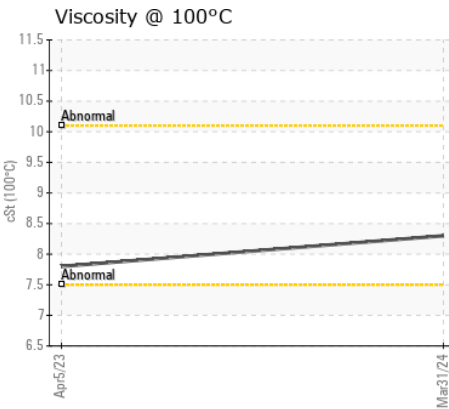
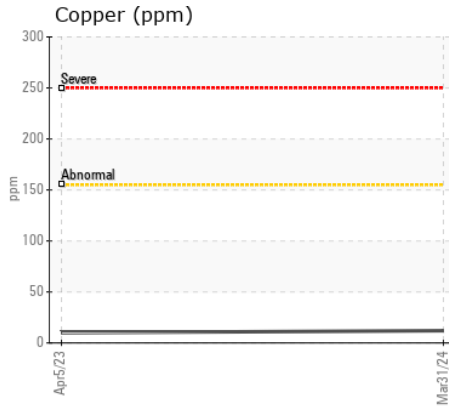
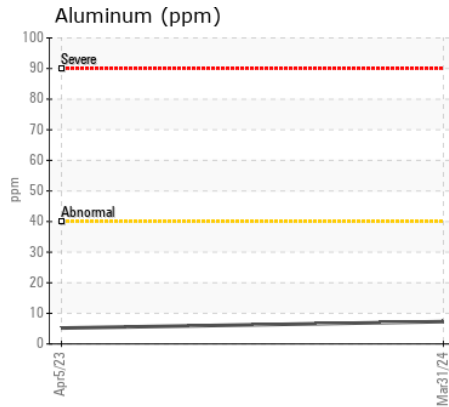
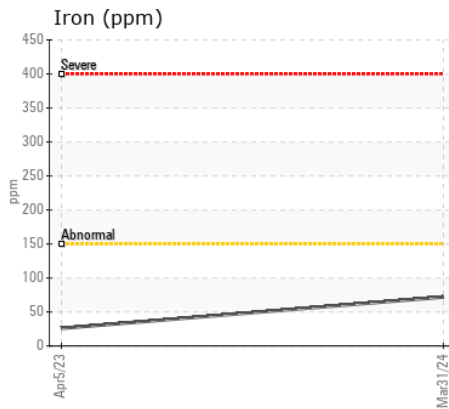
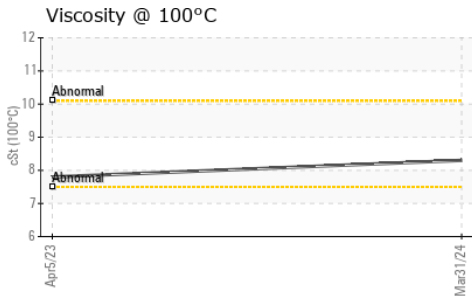
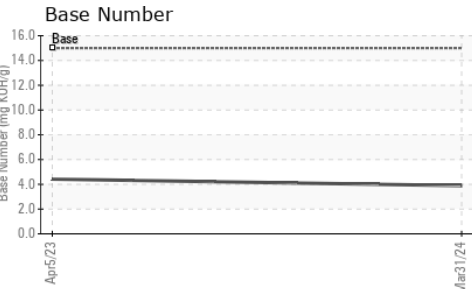
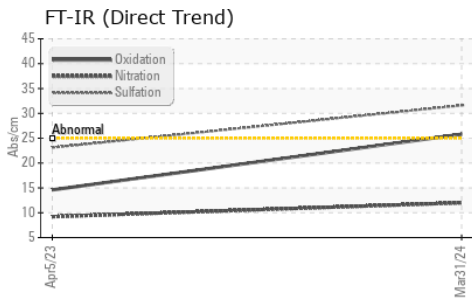
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	33	32	---
Potassium	ppm	ASTM D5185(m)	>20	3	3	---
Fuel		WC Method	>4.0	<1.0	1.3	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	12.0	9.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	31.6	23.1	---
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)	>400	4	10	---
Boron	ppm	ASTM D5185(m)		26	71	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		220	212	---
Manganese	ppm	ASTM D5185(m)		6	6	---
Magnesium	ppm	ASTM D5185(m)		511	511	---
Calcium	ppm	ASTM D5185(m)	4200	1243	1298	---
Phosphorus	ppm	ASTM D5185(m)	800	647	746	---
Zinc	ppm	ASTM D5185(m)	800	760	760	---
Sulfur	ppm	ASTM D5185(m)		2531	2633	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.8	14.6	---
Base Number (BN)	mg KOH/g	ASTM D2896*	15	3.89	4.42	---
Visc @ 100°C	cSt	ASTM D7279(m)		8.3	7.8	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02631586
Lab Number : *02631586
Unique Number : 5772739
Test Package : MOB 2
Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Kevin Marson

MARLEE BUDZ
 BOX 37, SITE 505
 SASKATOON, SK
 CA S7K 3J8
 Contact: Service Manager

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: