



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TOYOTA LAND CRUISER FMC031
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0930827	WC	WC0892400
Sample Date		Client Info		05 May 2024	03 Mar 2024	04 Feb 2024
Machine Age	hrs	Client Info		235	0	7
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	44	17	263
Chromium	ppm	ASTM D5185(m)	>20	2	<1	12
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		1	0	7
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	19	8	135
Lead	ppm	ASTM D5185(m)	>40	0	<1	1
Copper	ppm	ASTM D5185(m)	>330	13	10	49
Tin	ppm	ASTM D5185(m)	>15	<1	<1	9
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

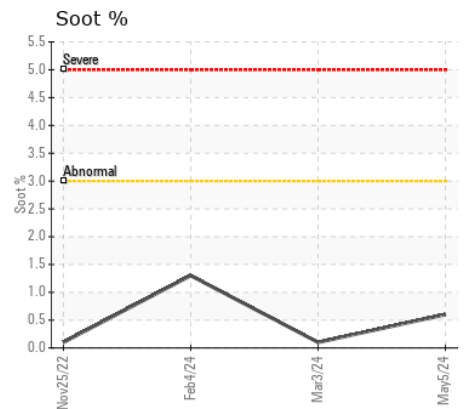
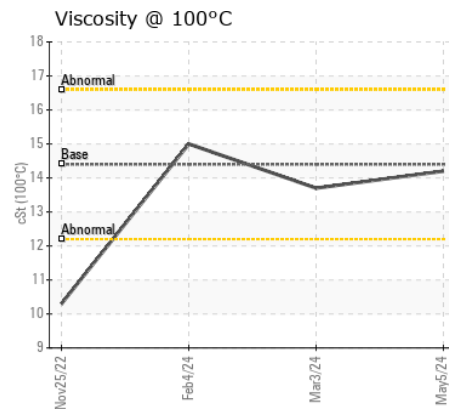
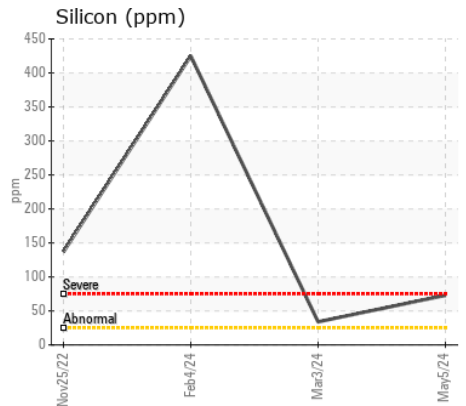
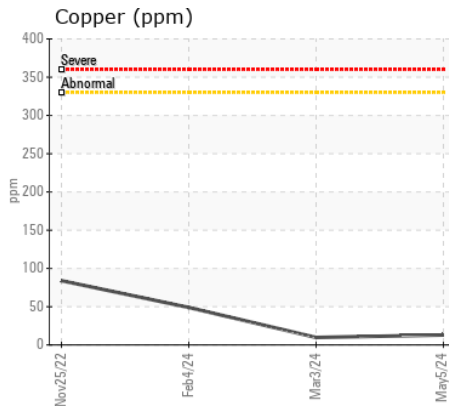
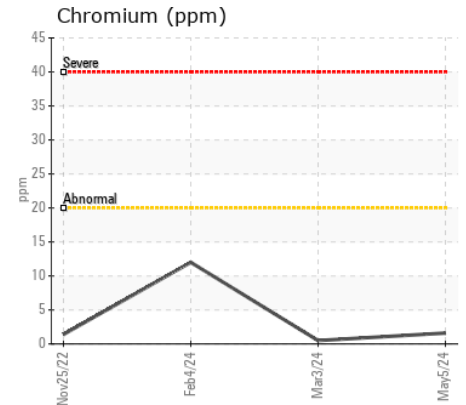
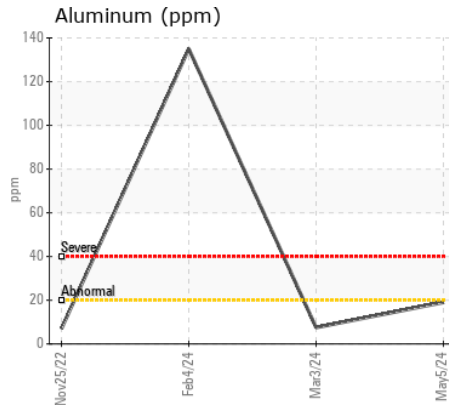
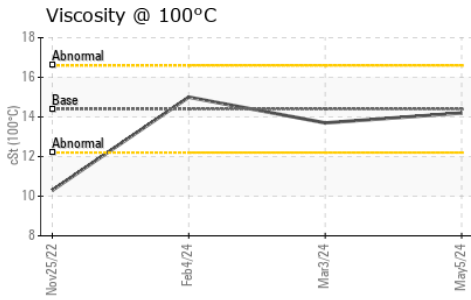
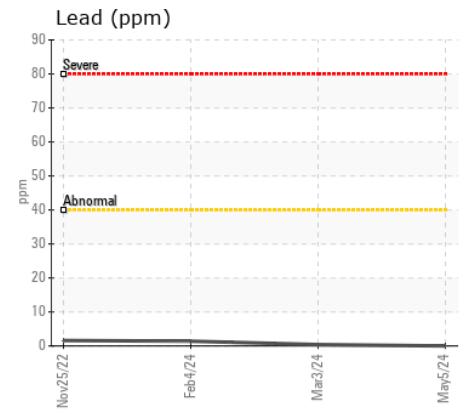
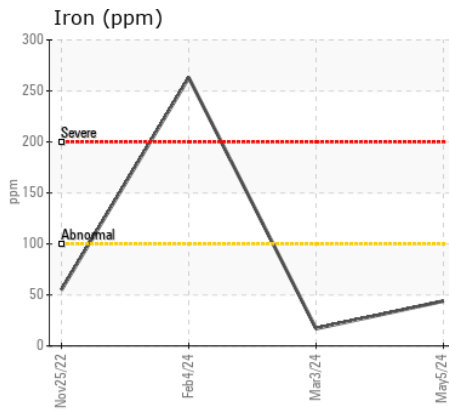
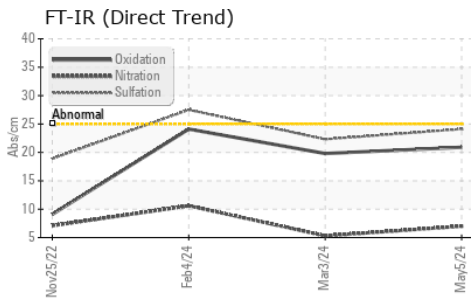
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	73	▲ 34	▲ 425
Potassium	ppm	ASTM D5185(m)	>20	9	3	64
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.6	0.1	1.3
Nitration	Abs/cm	ASTM D7624*	>20	7.0	5.3	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.1	22.3	27.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	8	4	51
Boron	ppm	ASTM D5185(m)	250	36	50	19
Barium	ppm	ASTM D5185(m)	10	1	<1	5
Molybdenum	ppm	ASTM D5185(m)	100	41	38	50
Manganese	ppm	ASTM D5185(m)		<1	0	4
Magnesium	ppm	ASTM D5185(m)	450	532	492	728
Calcium	ppm	ASTM D5185(m)	3000	1791	1706	1900
Phosphorus	ppm	ASTM D5185(m)	1150	733	748	788
Zinc	ppm	ASTM D5185(m)	1350	902	864	1017
Sulfur	ppm	ASTM D5185(m)	4250	1996	2223	2058
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.9	19.8	24.1
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.2	13.7	15.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0930827
Lab Number : 02633455
Unique Number : 5774608
Test Package : MOB 1
Received : 06 May 2024
Tested : 06 May 2024
Diagnosed : 06 May 2024 - Wes Davis

Agnico Eagle Canada
 1350 Government Rd. W, MACASSA COMPLEX
 Kirkland Lake, ON
 CA P2N 3J1
 Contact: Jay Gould
 MacassaMobileUGPlanning@agnicoeagle.com
 T: (705)567-5208
 F: (705)567-5221

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.