



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
TOYOTA LANDCRUISER FMC029
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1200 SP15W40 (--- GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0925856	WC0881158	WC0798606
Sample Date		Client Info		09 Apr 2024	24 Nov 2023	21 Sep 2023
Machine Age	hrs	Client Info		1881	1647	0
Oil Age	hrs	Client Info		250	0	0
Filter Age	hrs	Client Info		250	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	30	20	8
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	8	5	1
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	2	1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

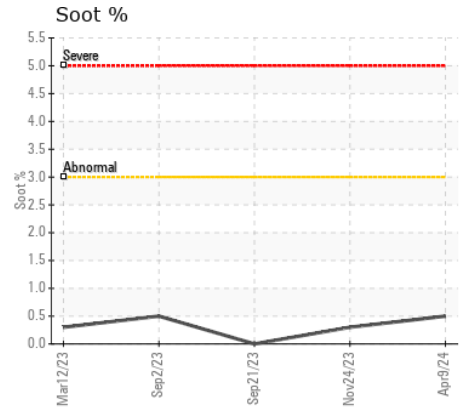
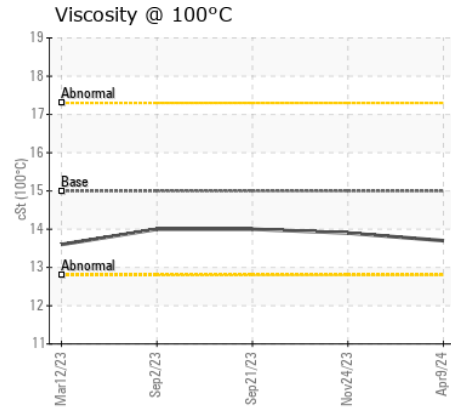
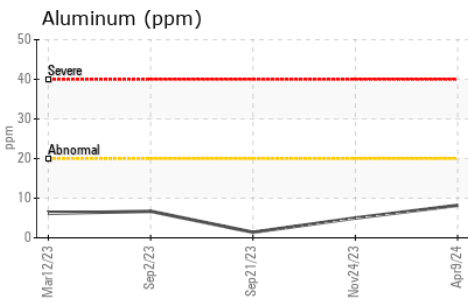
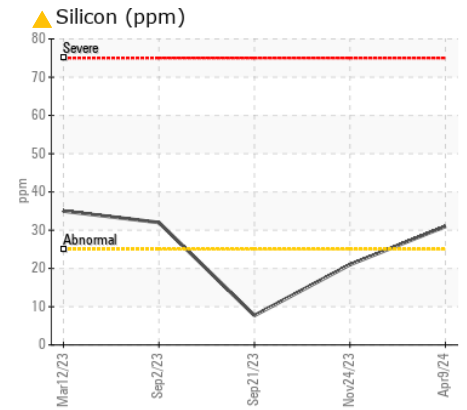
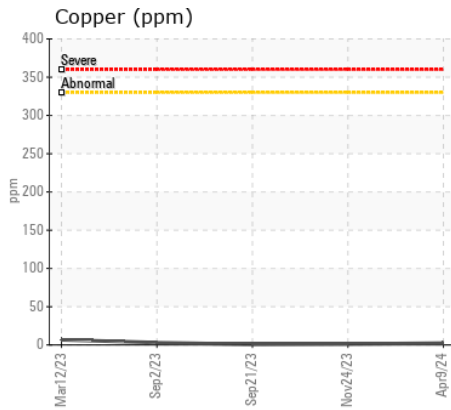
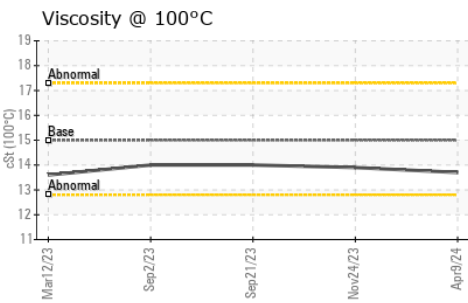
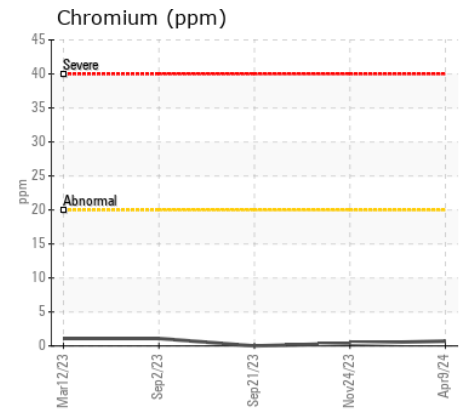
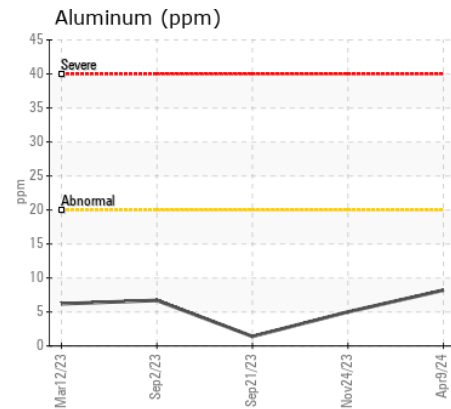
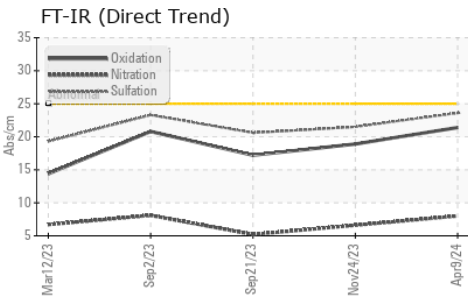
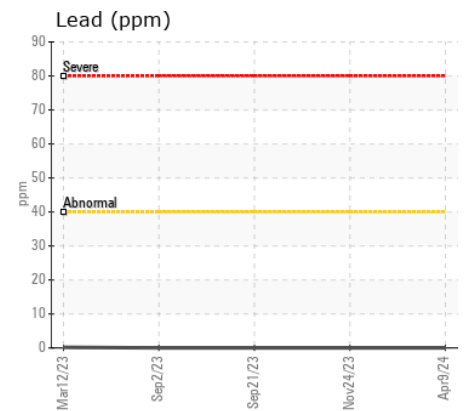
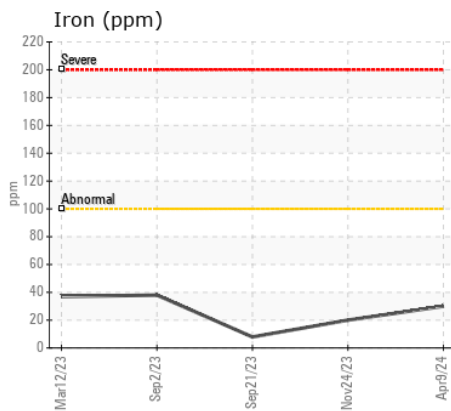
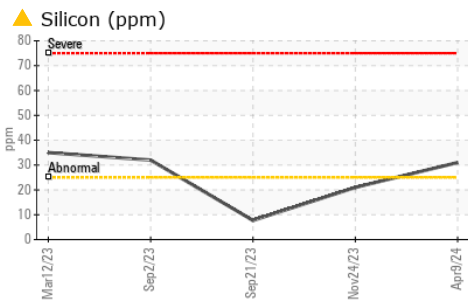
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185(m)	>25	▲ 31	21	8
Potassium	ppm	ASTM D5185(m)	>20	4	2	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	0.3	0
Nitration	Abs/cm	ASTM D7624*	>20	8.0	6.6	5.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	21.5	20.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		6	4	3
Boron	ppm	ASTM D5185(m)		36	24	34
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		40	48	48
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		514	698	695
Calcium	ppm	ASTM D5185(m)		1907	1478	1466
Phosphorus	ppm	ASTM D5185(m)		745	823	853
Zinc	ppm	ASTM D5185(m)		938	1005	1009
Sulfur	ppm	ASTM D5185(m)		2027	2197	2316
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.4	18.9	17.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.7	13.9	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0925856 **Received** : 12 Apr 2024
Lab Number : 02628358 **Tested** : 12 Apr 2024
Unique Number : 5761490 **Diagnosed** : 12 Apr 2024 - Kevin Marson
Test Package : MOB 1

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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.