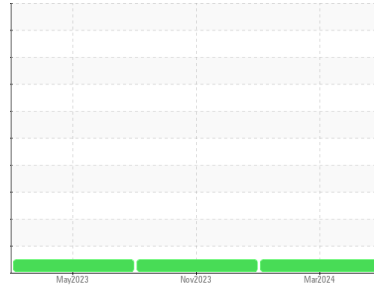




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
TOYOTA LANDCRUISER FMC032

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0879686	WC0881157	WC0650153
Sample Date	Client Info		14 Mar 2024	18 Nov 2023	02 May 2023
Machine Age	hrs	Client Info	1387	1150	507
Oil Age	hrs	Client Info	0	250	0
Oil Changed	Client Info		N/A	Changed	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	0.8
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	17	15	115
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	3
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	5	3	12
Lead	ppm	ASTM D5185(m)	>40	0	0	3
Copper	ppm	ASTM D5185(m)	>330	1	2	126
Tin	ppm	ASTM D5185(m)	>15	<1	<1	8
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	250	43	4	30
Barium	ppm	ASTM D5185(m)	10	<1	<1	2
Molybdenum	ppm	ASTM D5185(m)	100	42	59	109
Manganese	ppm	ASTM D5185(m)		0	0	3
Magnesium	ppm	ASTM D5185(m)	450	545	947	161
Calcium	ppm	ASTM D5185(m)	3000	1711	1123	4554
Phosphorus	ppm	ASTM D5185(m)	1150	729	984	1228
Zinc	ppm	ASTM D5185(m)	1350	888	1182	1429
Sulfur	ppm	ASTM D5185(m)	4250	2047	2526	3549
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

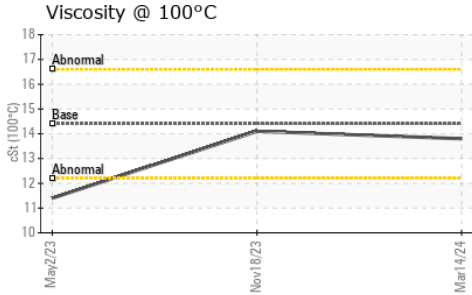
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	18	20	116
Sodium	ppm	ASTM D5185(m)	>158	3	2	3
Potassium	ppm	ASTM D5185(m)	>20	2	<1	4

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.5	0.5	1.1
Nitration	Abs/cm	ASTM D7624*	>20	6.3	6.0	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	19.2	21.5



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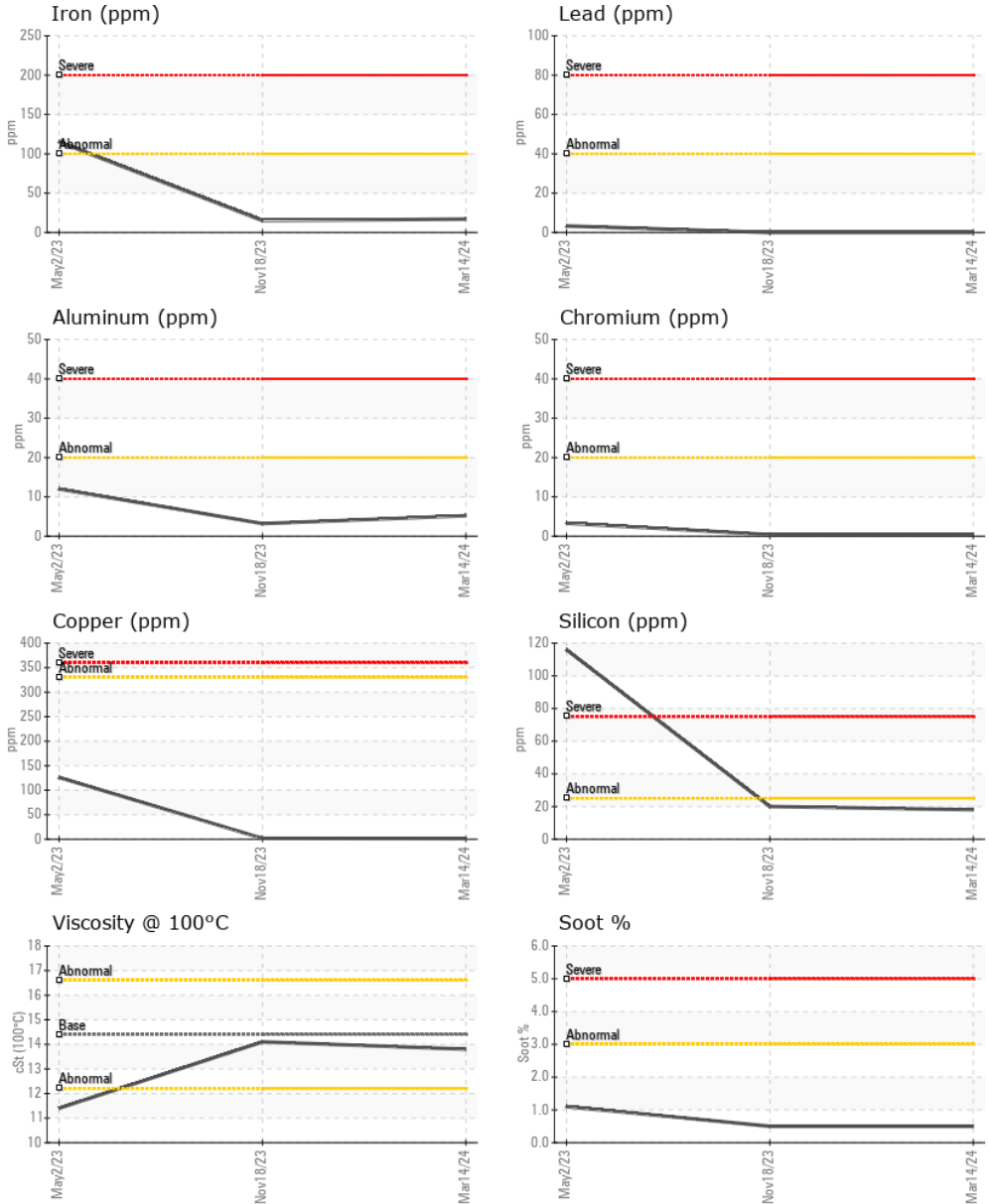


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	19.1	14.1	11.3

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.8	14.1	11.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0879686
Lab Number : 02623896
Unique Number : 5749015
Test Package : MOB 1
Received : 22 Mar 2024
Tested : 22 Mar 2024
Diagnosed : 22 Mar 2024 - Wes Davis

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 Kirkland Lake, ON
 CA P2N 3J1
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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.