



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
TOYOTA 8464005
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021054	RPL0013425	RPL0012401
Sample Date		Client Info		22 May 2024	26 Jul 2023	29 Apr 2023
Machine Age	mls	Client Info		180608	167646	155186
Oil Age	mls	Client Info		15964	3002	155186
Filter Age	mls	Client Info		15964	3002	155186
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	40	8	23
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	0	3
Lead	ppm	ASTM D5185m	>40	17	1	6
Copper	ppm	ASTM D5185m	>330	5	1	4
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

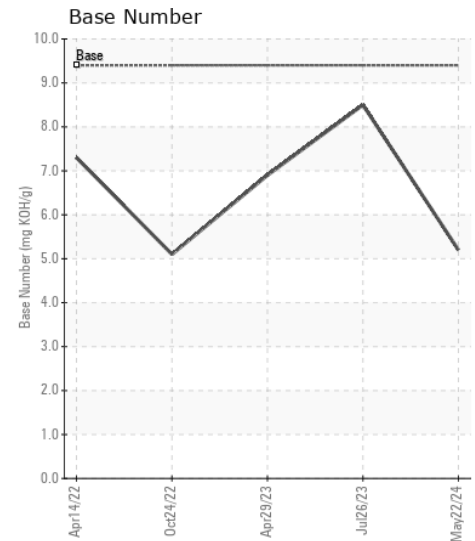
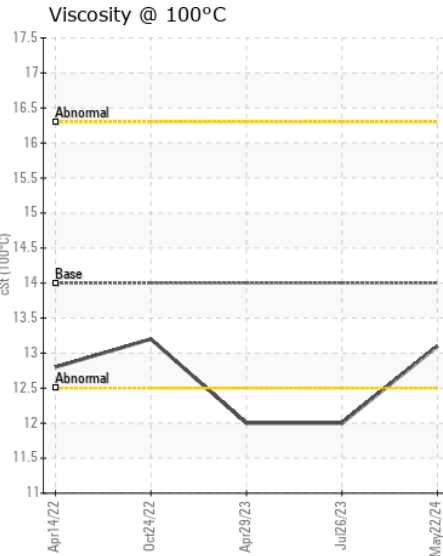
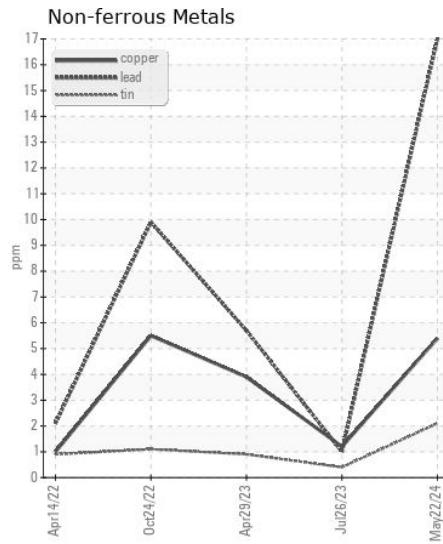
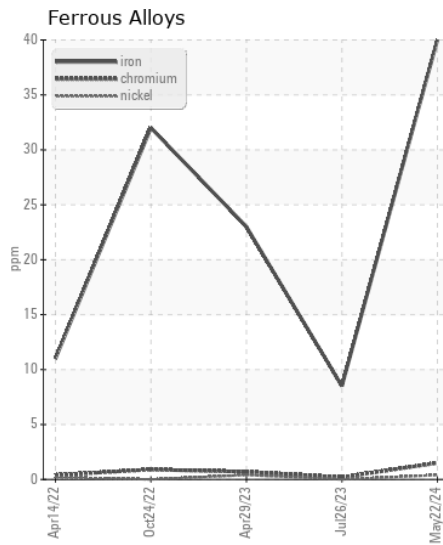
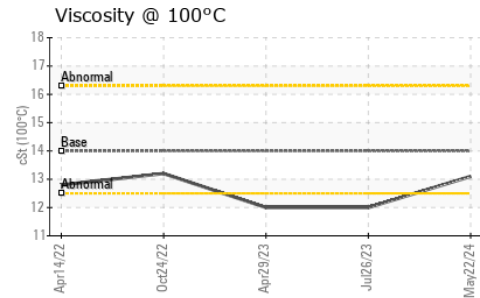
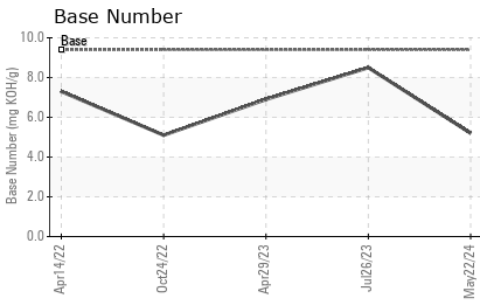
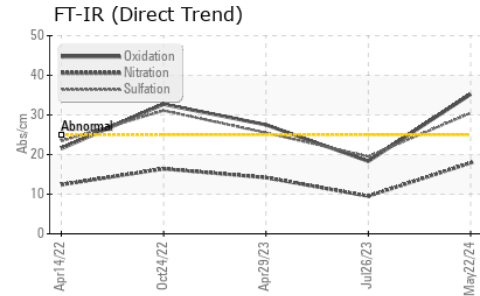
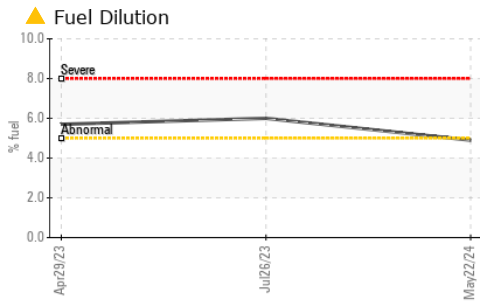
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	7	4	7
Potassium	ppm	ASTM D5185m	>20	5	1	2
Fuel	%	ASTM D3524	>5	▲ 4.9	▲ 6.0	▲ 5.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.2	0.3	0.8
Nitration	Abs/cm	*ASTM D7624	>20	17.9	9.5	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.5	19.5	25.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		5	1	2
Boron	ppm	ASTM D5185m	0	2	0	3
Barium	ppm	ASTM D5185m	0	0	2	2
Molybdenum	ppm	ASTM D5185m	0	68	61	59
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1047	934	938
Calcium	ppm	ASTM D5185m		1186	1129	1189
Phosphorus	ppm	ASTM D5185m		1132	1060	973
Zinc	ppm	ASTM D5185m		1395	1272	1186
Sulfur	ppm	ASTM D5185m		3412	3358	2965
Oxidation	Abs/.1mm	*ASTM D7414	>25	35.2	18.3	27.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.2	8.5	6.9
Visc @ 100°C	cSt	ASTM D445	14	13.1	▲ 12.0	▲ 12.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021054
Lab Number : 06197343
Unique Number : 11059466
Test Package : FLEET (Additional Tests: PercentFuel)

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660
 Contact: GERARDO CARROLA
 carrolag@rushenterprises.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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: