



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
2010 TOYOTA 2010 PRIUS
Component
Gasoline Engine
Fluid
PENNZOIL ULTRA PLATINUM GF6 SP 5W30 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06086181	WC05980589	WC05842282
Sample Date		Client Info		04 Feb 2024	07 Oct 2023	28 Apr 2023
Machine Age	mls	Client Info		81677	79664	77173
Oil Age	mls	Client Info		2016	2491	2648
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	2	1	6
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		1	2	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>40	1	2	3
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>155	0	<1	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

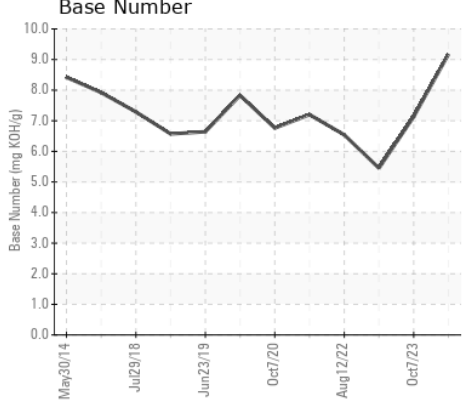
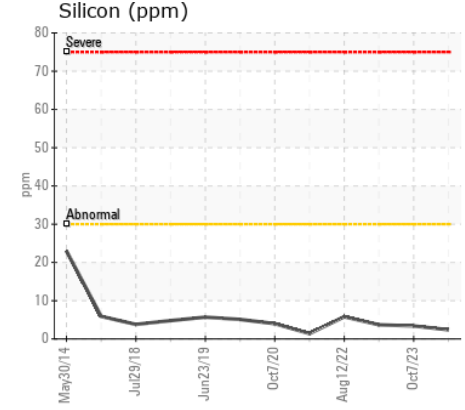
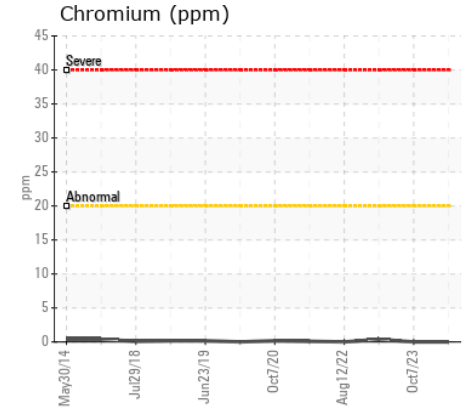
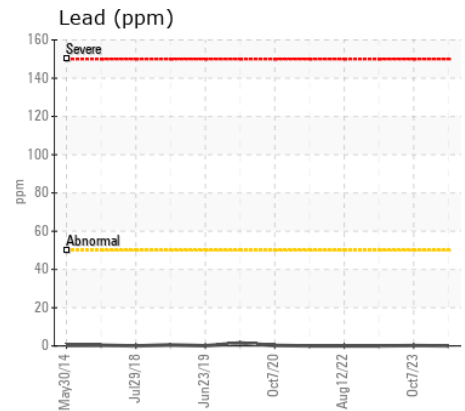
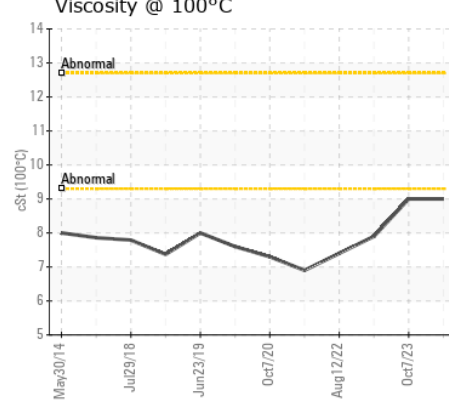
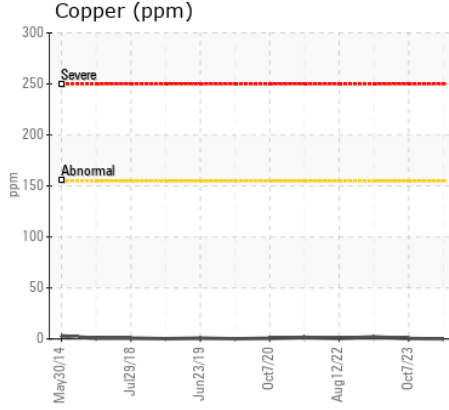
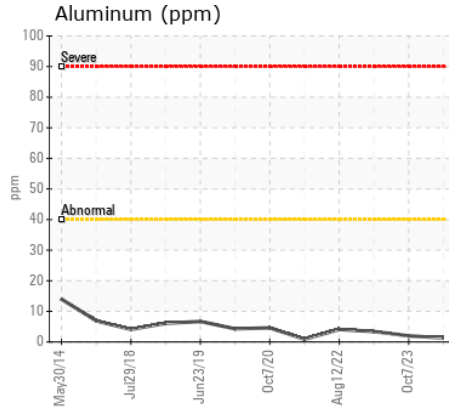
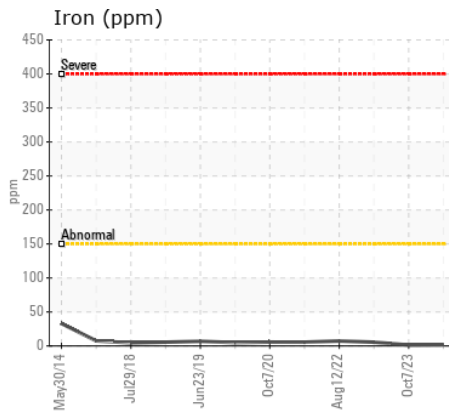
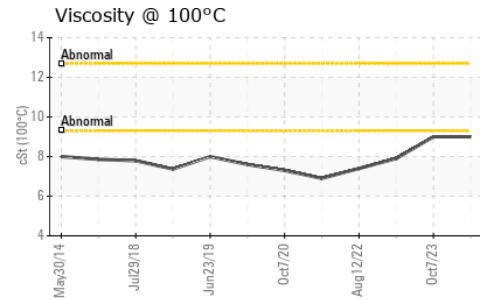
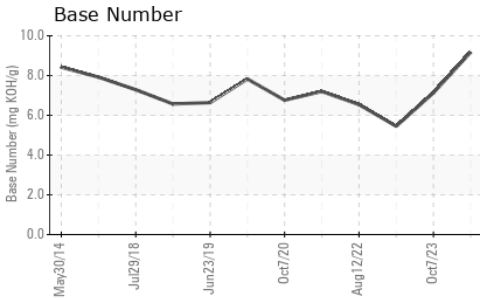
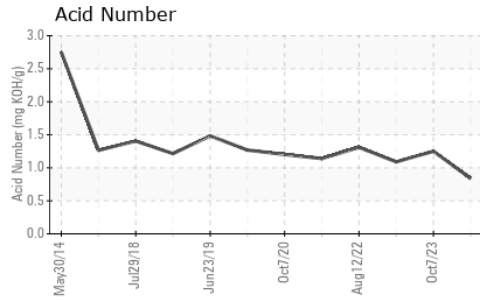
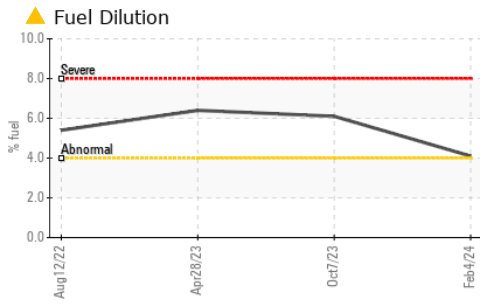
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>30	2	3	4
Potassium	ppm	ASTM D5185m	>20	0	2	2
Fuel	%	ASTM D3524	>4.0	▲ 4.1	▲ 6.1	▲ 6.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.5	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.9	17.7
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. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>400	3	3	4
Boron	ppm	ASTM D5185m		258	164	23
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		77	72	45
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		712	588	372
Calcium	ppm	ASTM D5185m		1119	1385	903
Phosphorus	ppm	ASTM D5185m		650	686	549
Zinc	ppm	ASTM D5185m		777	893	615
Sulfur	ppm	ASTM D5185m		3745	3858	2131
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	14.6	9.7
Acid Number (AN)	mg KOH/g	ASTM D8045		0.84	1.25	1.09
Base Number (BN)	mg KOH/g	ASTM D2896		9.17	7.13	5.45
Visc @ 100°C	cSt	ASTM D445		9	9	7.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06086181 **Received** : 12 Feb 2024
Lab Number : 06086181 **Tested** : 15 Feb 2024
Unique Number : 10873626 **Diagnosed** : 15 Feb 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: PercentFuel, TBN)

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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