OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Machine Id
TOYOTA 846-4634
Component
Diesel Engine
Fluid
MOBIL DELVAC ELITE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

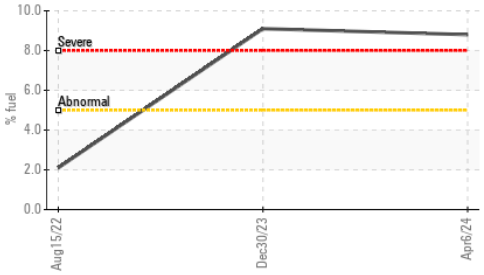
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019296	RPL0017351	RPL0015506
Sample Date		Client Info		06 Apr 2024	30 Dec 2023	07 Oct 2023
Machine Age	mls	Client Info		138249	134531	124385
Oil Age	mls	Client Info		3718	10146	19394
Filter Age	mls	Client Info		3718	10146	19394
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>100	11	17	45
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	4
Lead	ppm	ASTM D5185m	>40	2	2	9
Copper	ppm	ASTM D5185m	>330	3	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
Silicon	ppm	ASTM D5185m	>25	5	3	5
Potassium	ppm	ASTM D5185m	>20	4	0	0
Fuel	%	ASTM D3524	>5	▲ 8.8	▲ 9.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.6	1.3
Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.5	14.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	22.0	28.6
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
Sodium	ppm	ASTM D5185m		1	0	3
Boron	ppm	ASTM D5185m		1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		59	57	59
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		896	906	851
Calcium	ppm	ASTM D5185m		1069	974	1036
Phosphorus	ppm	ASTM D5185m		1087	959	819
Zinc	ppm	ASTM D5185m		1187	1203	1056
Sulfur	ppm	ASTM D5185m		3479	2891	2455
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	22.1	30.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.7	6.7	5.2
Visc @ 100°C	cSt	ASTM D445	15.2	▲ 10.5	▲ 10.4	12.5

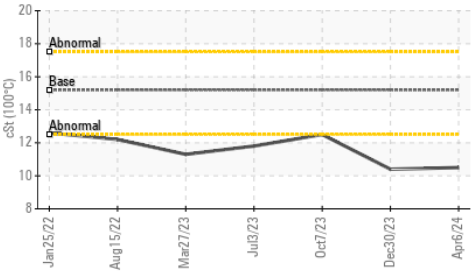
Report Id: PAC7006 [WUSCAR] 06152935 (Generated: 04/22/2024 07:51:03) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

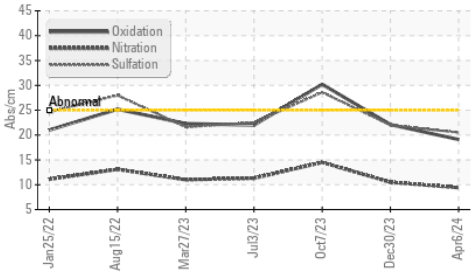
Fuel Dilution



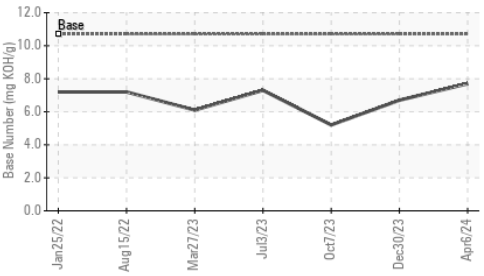
Viscosity @ 100°C



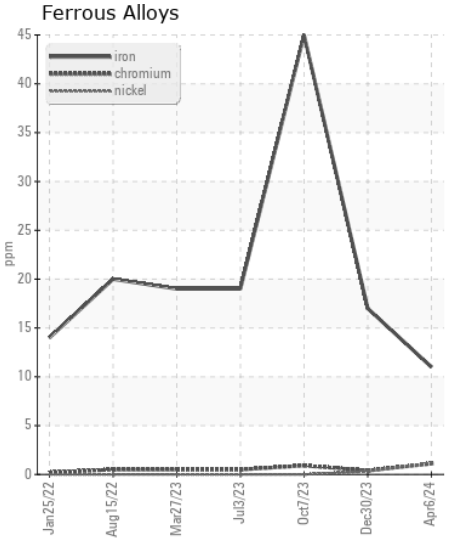
FT-IR (Direct Trend)



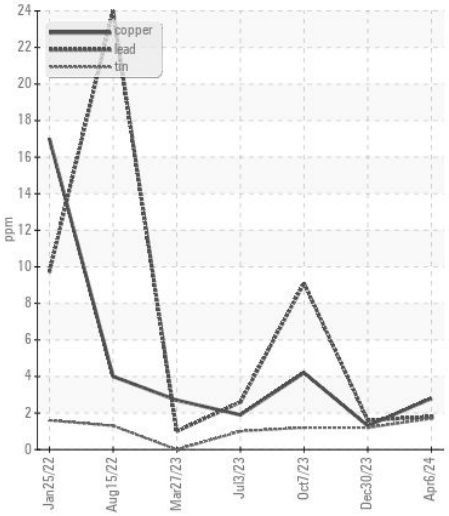
Base Number



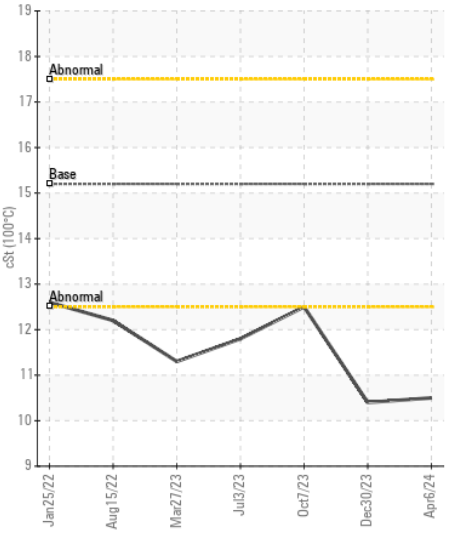
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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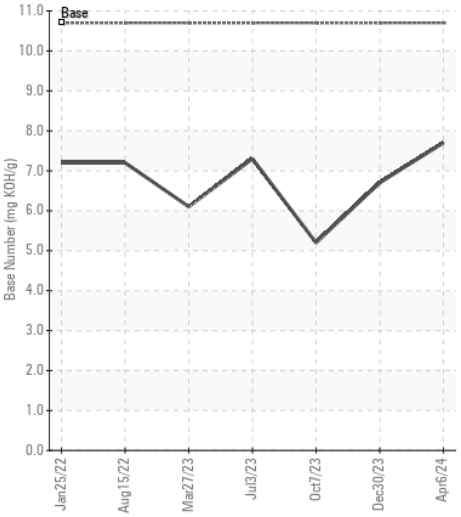

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019296
Lab Number : 06152935
Unique Number : 10983013
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 18 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 2024 - Wes Davis

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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