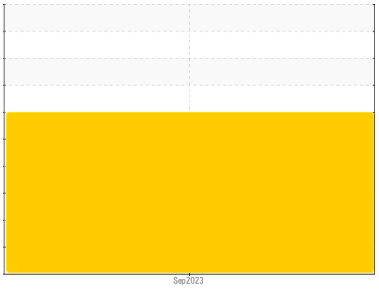
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
Toyota - 888058
Machine Id
A2310105
Component
Unknown Component
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample.

Wear
Copper and iron ppm levels are noted.

Contamination
Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high.

Fluid Condition
Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Machine ID		Client Info		**Block Containme**	---	---
Department		Client Info		**Sales**	---	---
Production Stage		Client Info		**Initial**	---	---
Sent to WC		Client Info		**10/18/2023**	---	---
Sample Number		Client Info		**E30000550**	---	---
Sample Date		Client Info		**07 Sep 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

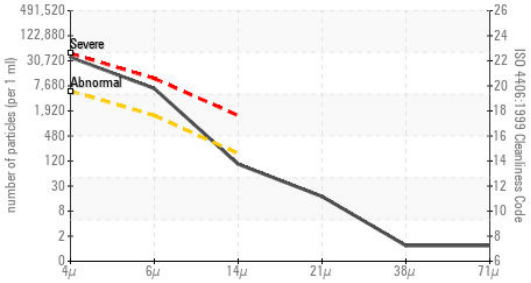
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		▲ **16**	---	---
Chromium	ppm	ASTM D5185(m)		**0**	---	---
Nickel	ppm	ASTM D5185(m)		**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)		**<1**	---	---
Lead	ppm	ASTM D5185(m)		**1**	---	---
Copper	ppm	ASTM D5185(m)		▲ **18**	---	---
Tin	ppm	ASTM D5185(m)		**0**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	---	---
Barium	ppm	ASTM D5185(m)		**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)		**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**1**	---	---
Calcium	ppm	ASTM D5185(m)		**27**	---	---
Phosphorus	ppm	ASTM D5185(m)		**264**	---	---
Zinc	ppm	ASTM D5185(m)		**216**	---	---
Sulfur	ppm	ASTM D5185(m)		**5314**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

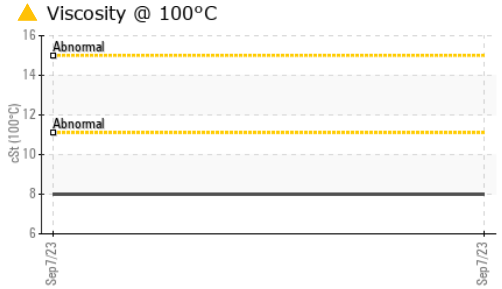
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**2**	---	---
Sodium	ppm	ASTM D5185(m)		**<1**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Water	%	ASTM D6304*		**0.085**	---	---
ppm Water	ppm	ASTM D6304*		**856.1**	---	---

OIL ANALYSIS REPORT

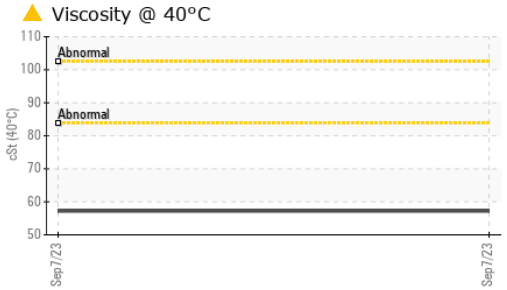
Particle Count



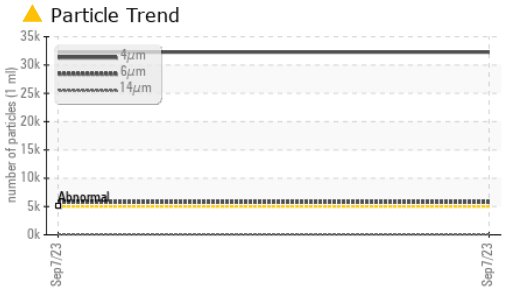
Viscosity @ 100°C



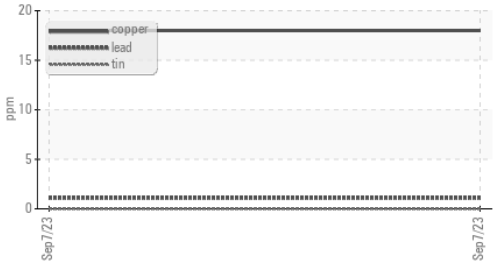
Viscosity @ 40°C



Particle Trend



Non-ferrous Metals

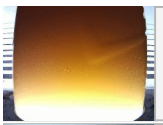
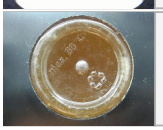


FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **32279**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **5772**	---	---
Particles >14µm		ASTM D7647	>160	**89**	---	---
Particles >21µm		ASTM D7647	>40	**15**	---	---
Particles >38µm		ASTM D7647	>10	**1**	---	---
Particles >71µm		ASTM D7647	>3	**1**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/20/14**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.39**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**VLITE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	▲ **WGOIL**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*		**.2%**	---	---
Free Water	scalar	Visual*		▲ **1%**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		▲ **57.2**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		▲ **8**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		**106**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000550 **Recieved** : 20 Oct 2023
Lab Number : 02590632 **Diagnosed** : 09 Nov 2023
Unique Number : 5659698 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

To discuss this sample report, contact Customer Service at 1-905-372-2251.
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.

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