



# PROBLEM SUMMARY

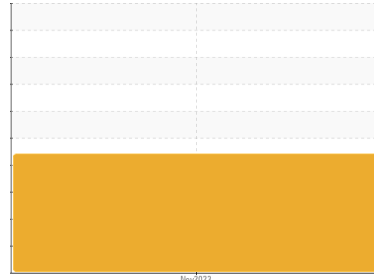
Sample Rating Trend

WATER

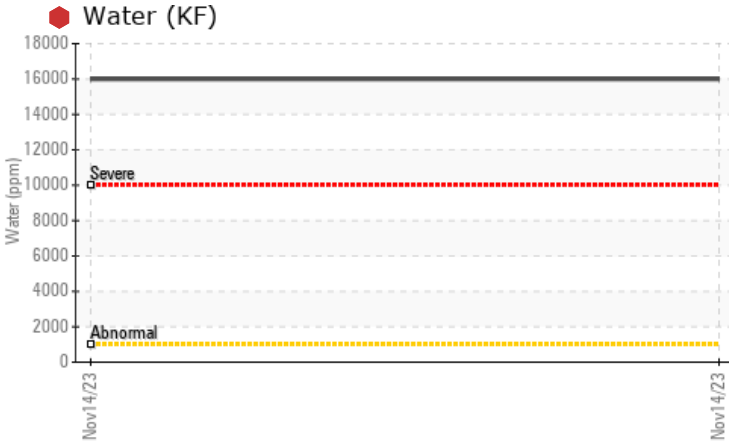


Area  
**EQUIPMENT EXCHANGE**  
Machine Id  
**TOYOTA 42387**

Component  
**Propane Engine**  
Fluid  
**NOT GIVEN (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Water	%	ASTM D6304	>0.1	1.60	---	---
ppm Water	ppm	ASTM D6304	>1000	16000	---	---
Debris	scalar	*Visual	NONE	MODER	---	---
Appearance	scalar	*Visual	NORML	MILKY	---	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---	---

Customer Id: FORDEN  
Sample No.: WC0881048  
Lab Number: 06011989  
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS



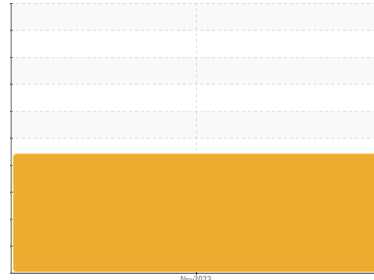
# OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area  
**EQUIPMENT EXCHANGE**  
 Machine Id  
**TOYOTA 42387**  
 Component  
**Propane Engine**  
 Fluid  
**NOT GIVEN (--- GAL)**



## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Appearance is milky. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0881048</b>	---	---
Sample Date	Client Info		<b>14 Nov 2023</b>	---	---
Machine Age	wks Client Info		<b>1</b>	---	---
Oil Age	wks Client Info		<b>1</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	<b>3</b>	---	---
Chromium	ppm ASTM D5185m	>25	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m	>5	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	>5	<b>2</b>	---	---
Aluminum	ppm ASTM D5185m	>20	<b>2</b>	---	---
Lead	ppm ASTM D5185m	>25	<b>0</b>	---	---
Copper	ppm ASTM D5185m	>35	<b>&lt;1</b>	---	---
Tin	ppm ASTM D5185m	>8	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm ASTM D5185m		<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		<b>382</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>70</b>	---	---
Manganese	ppm ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm ASTM D5185m		<b>315</b>	---	---
Calcium	ppm ASTM D5185m		<b>1363</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>949</b>	---	---
Zinc	ppm ASTM D5185m		<b>1117</b>	---	---
Sulfur	ppm ASTM D5185m		<b>3141</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>50	<b>7</b>	---	---
Sodium	ppm ASTM D5185m		<b>4</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>4</b>	---	---
Water	% ASTM D6304	>0.1	<b>1.60</b>	---	---
ppm Water	ppm ASTM D6304	>1000	<b>16000</b>	---	---

## INFRA-RED

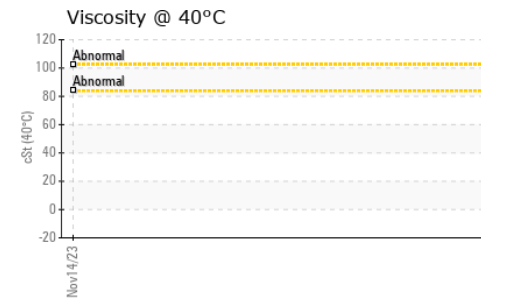
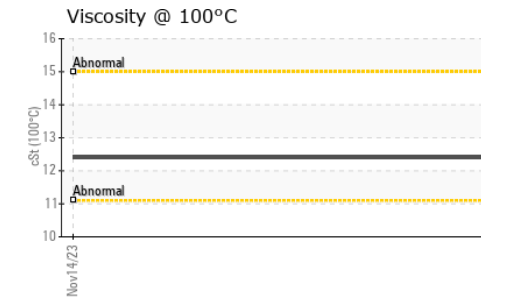
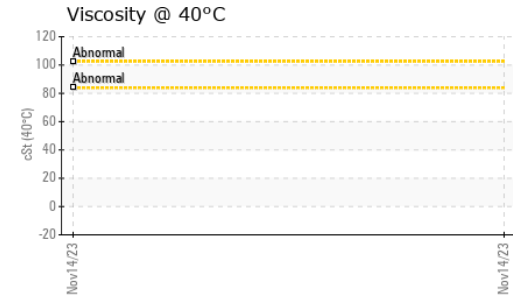
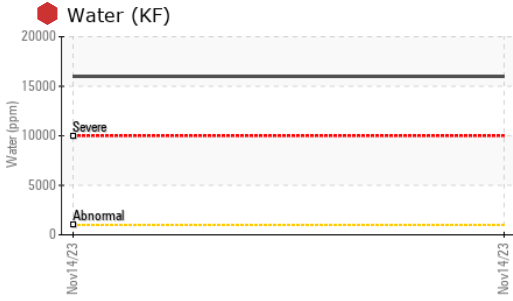
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844		<b>0</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>5.1</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>16.7</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>11.9</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896		<b>9.6</b>	---	---



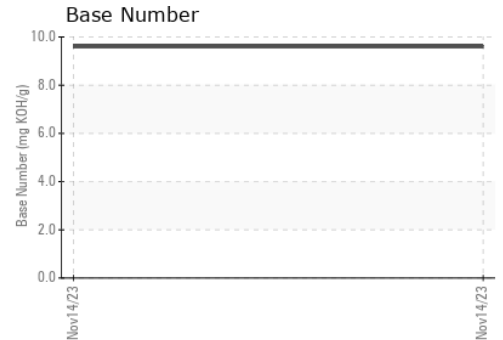
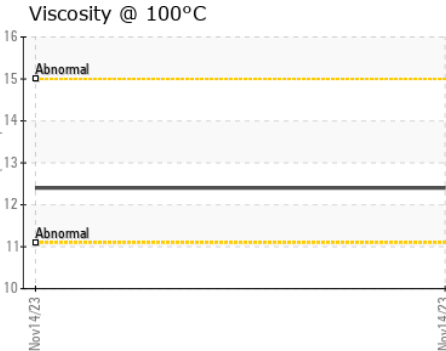
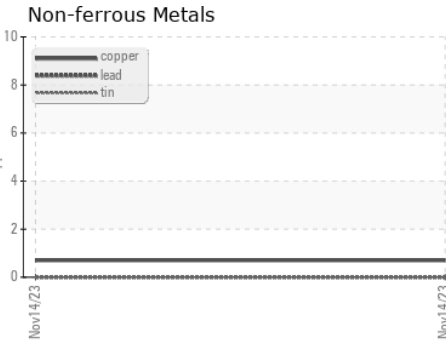
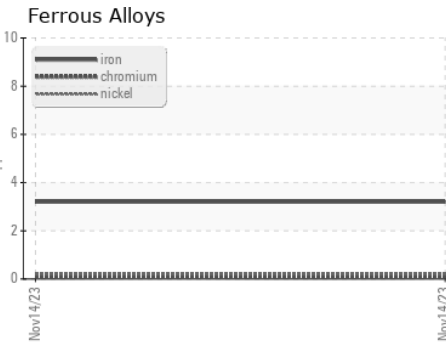
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	▲ MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	◆ 0.2%	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.4	---	---

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0881048 Received : 20 Nov 2023  
 Lab Number : 06011989 Diagnosed : 22 Nov 2023  
 Unique Number : 10751133 Diagnostician : Jonathan Hester  
 Test Package : CONST ( Additional Tests: KF, KV40 )

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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