



# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**LEXUS RX350**  
Component  
**LEXUS RX350 Rear Differential**  
Fluid  
**TOYOTA 75W85 GL5 (1 LTR)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## WEAR

Chromium and iron ppm levels are abnormal. Nickel ppm levels are marginal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

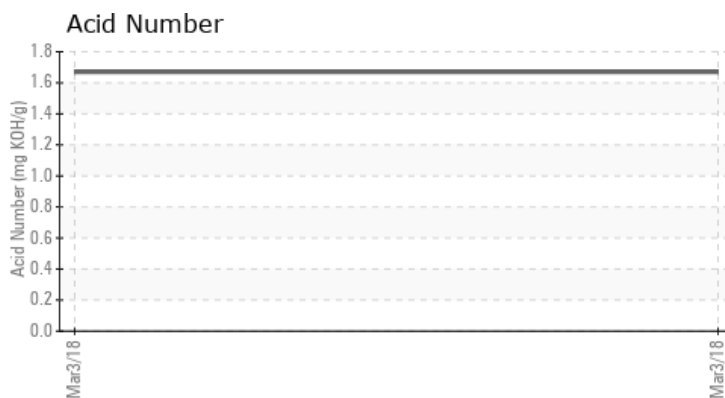
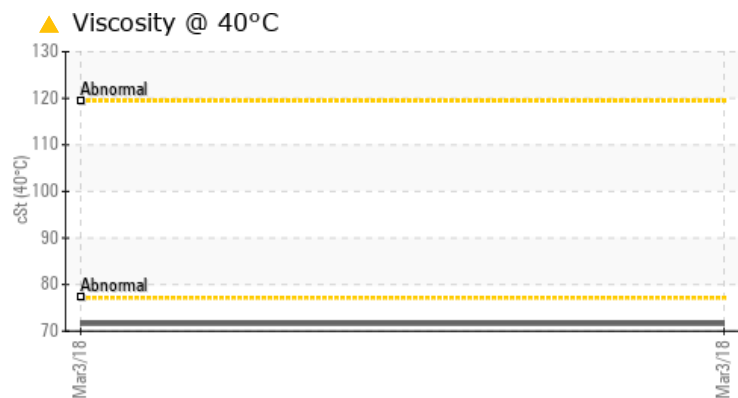
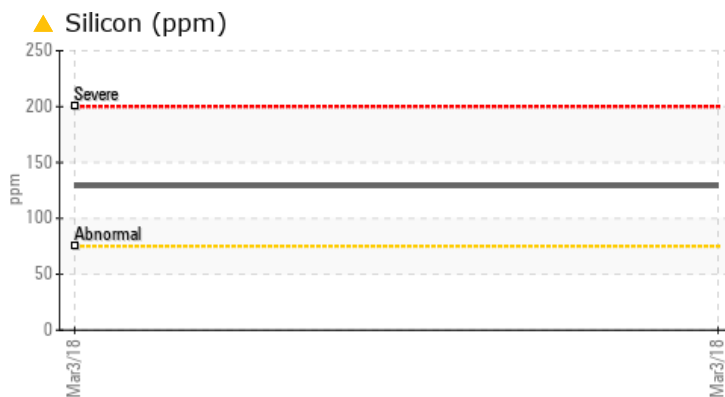
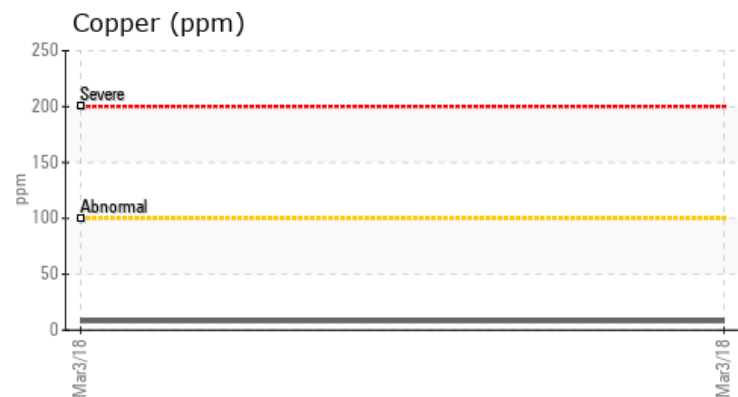
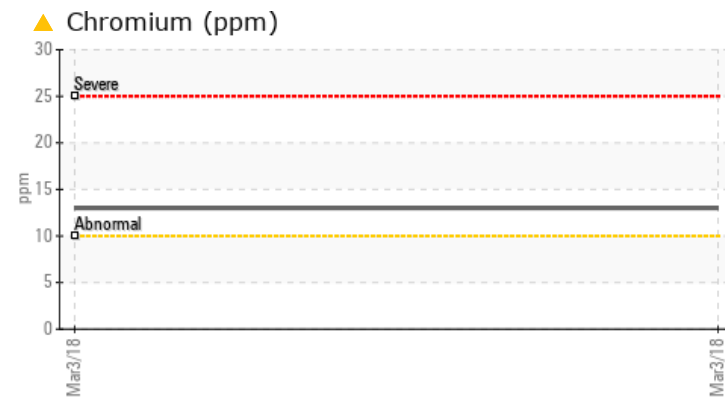
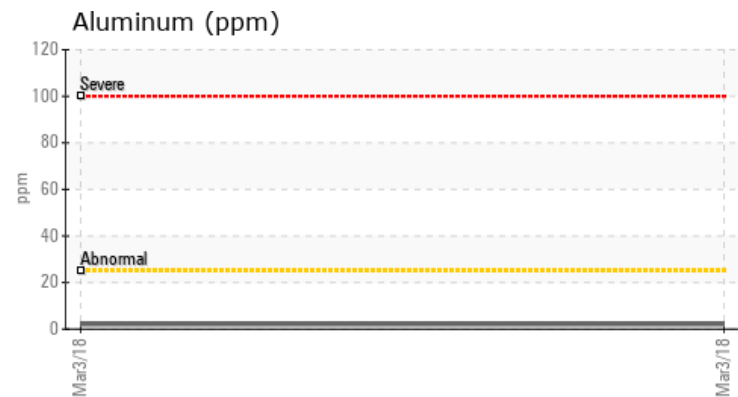
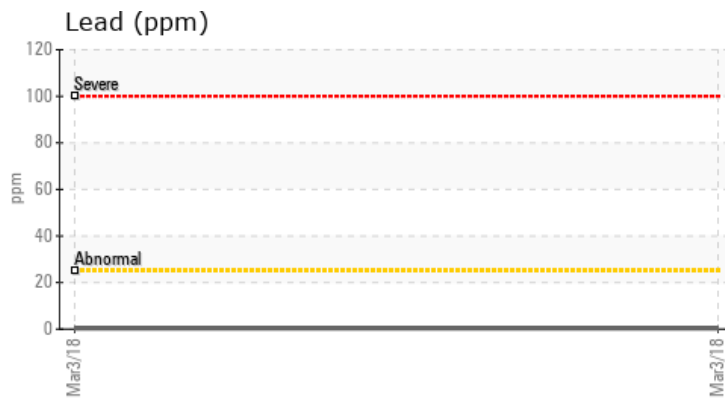
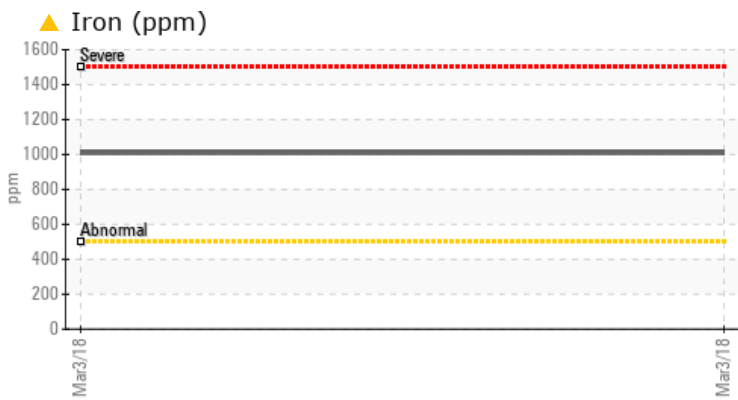
## CONTAMINATION

There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

## FLUID CONDITION

Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				<b>WC100883</b>	---	---
Sample Date				<b>03 Mar 2018</b>	---	---
Machine Age	kms			<b>47407</b>	---	---
Oil Age	kms			<b>47407</b>	---	---
Filter Age	kms			<b>0</b>	---	---
Oil Changed				<b>Changed</b>	---	---
Filter Changed				<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---
PQ		In-house		<b>200</b>	---	---
Iron	ppm	ASTM D5185	>500	<b>▲ 1009</b>	---	---
Chromium	ppm	ASTM D5185	>10	<b>▲ 13</b>	---	---
Manganese	ppm	ASTM D5185		<b>25</b>	---	---
Nickel	ppm	ASTM D5185		<b>▲ 19</b>	---	---
Titanium	ppm	ASTM D5185		<b>0.2</b>	---	---
Silver	ppm	ASTM D5185		<b>1.5</b>	---	---
Aluminum	ppm	ASTM D5185	>25	<b>2.1</b>	---	---
Lead	ppm	ASTM D5185	>25	<b>0.3</b>	---	---
Copper	ppm	ASTM D5185	>100	<b>8.1</b>	---	---
Tin	ppm	ASTM D5185	>10	<b>0.2</b>	---	---
Vanadium	ppm	ASTM D5185		<b>0.1</b>	---	---
White Metal	scalar	Visual	NONE	<b>NONE</b>	---	---
Babbitt	scalar	Visual	NONE	<b>NONE</b>	---	---
Silicon	ppm	ASTM D5185	>75	<b>▲ 129</b>	---	---
Potassium	ppm	ASTM D5185	>20	<b>1.9</b>	---	---
Silt	scalar	Visual	NONE	<b>LIGHT</b>	---	---
Debris	scalar	Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual	>.2	<b>NEG</b>	---	---
Sodium	ppm	ASTM D5185		<b>48</b>	---	---
Boron	ppm	ASTM D5185		<b>130</b>	---	---
Barium	ppm	ASTM D5185		<b>19</b>	---	---
Molybdenum	ppm	ASTM D5185		<b>0.3</b>	---	---
Magnesium	ppm	ASTM D5185		<b>1.6</b>	---	---
Calcium	ppm	ASTM D5185		<b>8.7</b>	---	---
Phosphorus	ppm	ASTM D5185		<b>1435</b>	---	---
Zinc	ppm	ASTM D5185		<b>200</b>	---	---
Sulfur	ppm	ASTM D5185		<b>23320</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D664		<b>1.67</b>	---	---
Visc @ 40°C	cSt	ASTM D7279		<b>▲ 71.6</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC100883 **Received** : 22 May 2018  
**Lab Number** : 02217524 **Diagnosed** : 23 May 2018  
**Unique Number** : 4692649 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: PQ, TAN Man )

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To discuss diagnosis or test data, contact Technical Support at 1-800-268-2131.  
 To change component or sample information, contact Customer Service at 1-800-268-2131.