



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>MARGINAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**PERKINS 1579 BRONTE - TiT**  
 Component  
**Diesel Engine**  
 Fluid  
**TOTAL FINA RUBIA TIR 7900 15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0888770</b>	WC0787081	---
Sample Date		Client Info		<b>06 Mar 2024</b>	29 Mar 2023	---
Machine Age	hrs	Client Info		<b>477</b>	464	---
Oil Age	hrs	Client Info		<b>13</b>	0	---
Filter Age	hrs	Client Info		<b>13</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>MARGINAL</b>	SEVERE	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	<b>&lt;1</b>	8	---
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>35	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	7	---
Copper	ppm	ASTM D5185(m)	>60	<b>0</b>	▲ 249	---
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## CONTAMINATION

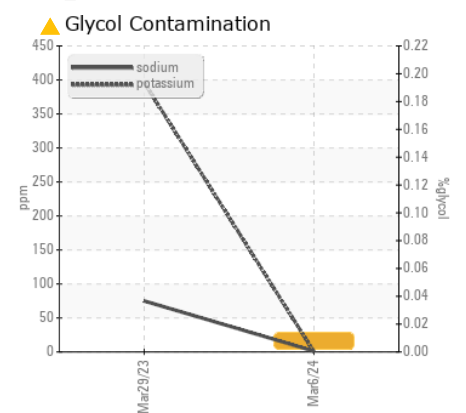
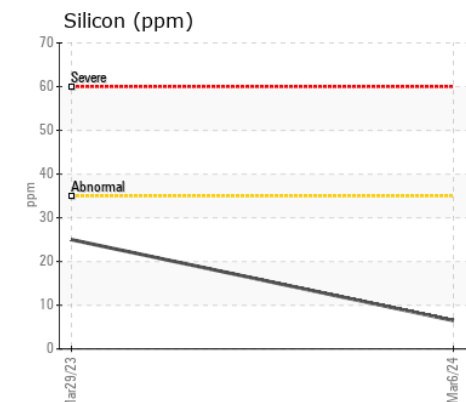
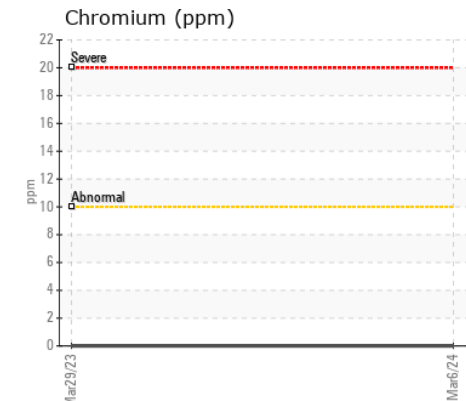
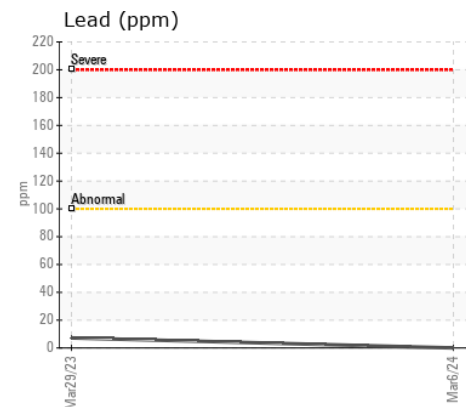
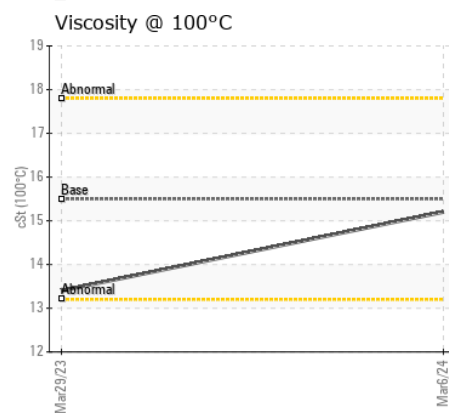
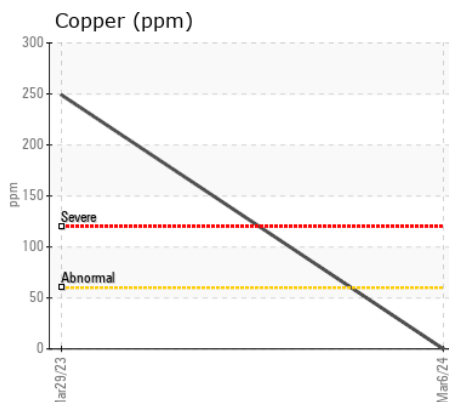
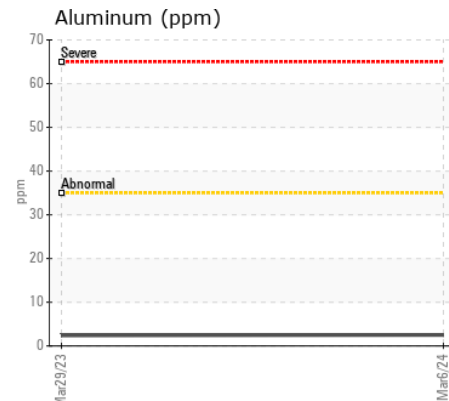
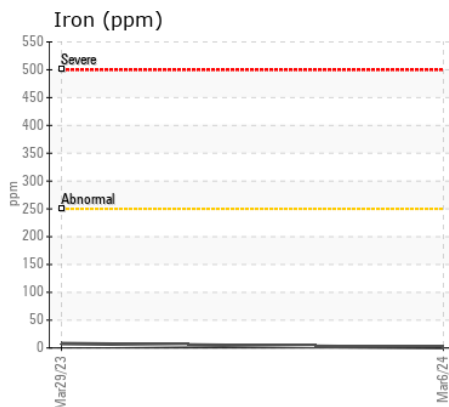
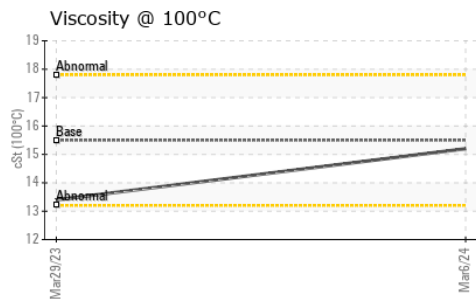
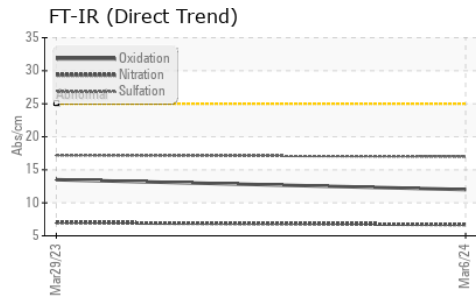
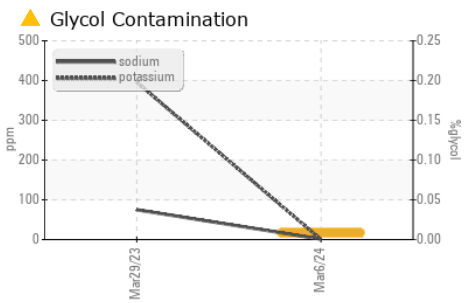
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>6</b>	25	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	▲ 396	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	%	ASTM D7922*		▲ <b>0.014</b>	▲ >.70	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.7</b>	7.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.0</b>	17.2	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		<b>1</b>	● 75	---
Boron	ppm	ASTM D5185(m)		<b>74</b>	45	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>86</b>	119	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	4	---
Magnesium	ppm	ASTM D5185(m)		<b>21</b>	220	---
Calcium	ppm	ASTM D5185(m)	3290	<b>2090</b>	1833	---
Phosphorus	ppm	ASTM D5185(m)	1200	<b>981</b>	993	---
Zinc	ppm	ASTM D5185(m)	1400	<b>1098</b>	1137	---
Sulfur	ppm	ASTM D5185(m)	4000	<b>3082</b>	2875	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.0</b>	13.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>15.2</b>	13.4	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0888770 **Received** : 15 Apr 2024  
**Lab Number** : 02628803 **Tested** : 16 Apr 2024  
**Unique Number** : 5761935 **Diagnosed** : 16 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1

**GenWorx Power Systems Inc.**  
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 Ajax, ON  
 CA L1S 7G1  
 Contact: J Curtis  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 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.