

Machine Id  
**WACKER NEUSON FC07665**  
Component  
**Hydraulic System**  
Fluid  
**FUTERRA HF 46 (--- GAL)**



**DIAGNOSIS**

**Recommendation**  
We advise that you check for visible metal particles in the oil. We advise that you check all areas where dirt can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as (ONE-OFFS) FUTERRA HF 46, however, a fluid match indicates that this fluid is ISO 46 AW Hydraulic Oil. Please confirm the oil type and grade on your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

**Wear**  
Moderate concentration of visible metal present. Cylinder wear is indicated.

**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**  
Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0073376</b>	---	---
Sample Date	Client Info		<b>18 Jul 2023</b>	---	---
Machine Age	hrs	Client Info	<b>1</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

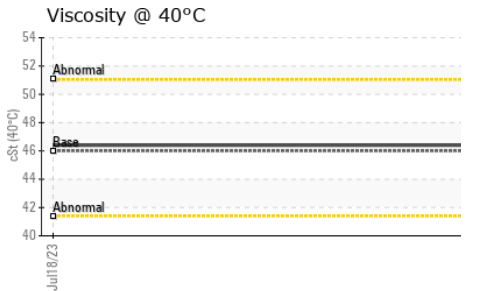
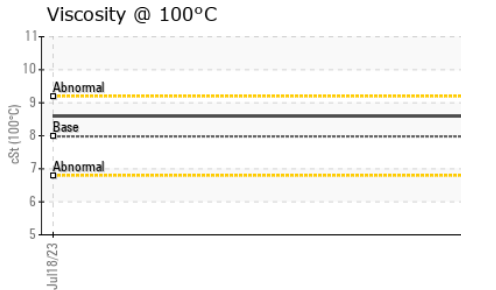
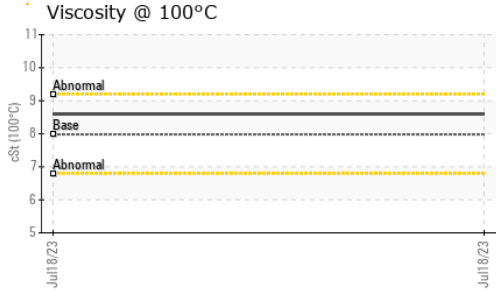
WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>2</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Calcium	ppm	ASTM D5185(m)		<b>▲ 49</b>	---
Phosphorus	ppm	ASTM D5185(m)		<b>375</b>	---
Zinc	ppm	ASTM D5185(m)		<b>▲ 439</b>	---
Sulfur	ppm	ASTM D5185(m)		<b>▲ 1976</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>▲ 34</b>	---
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>▲ VLITE</b>	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---
Silt	scalar	Visual*	NONE	<b>NONE</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*	>0.05	<b>NEG</b>	---
Free Water	scalar	Visual*		<b>NEG</b>	---

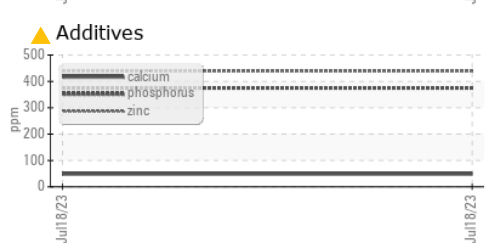
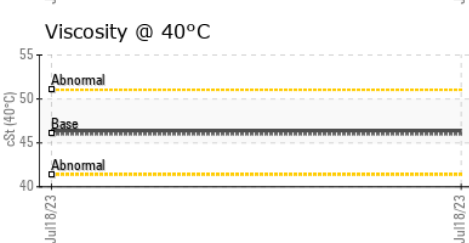
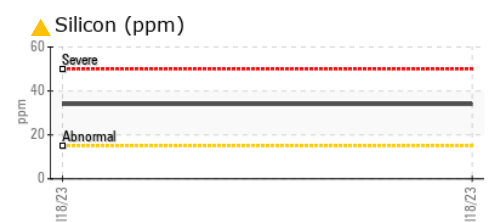
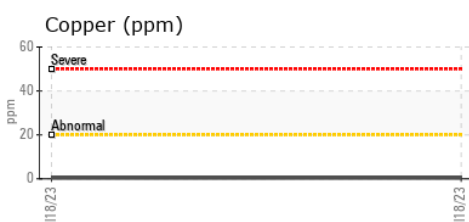
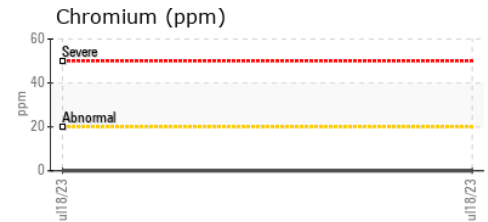
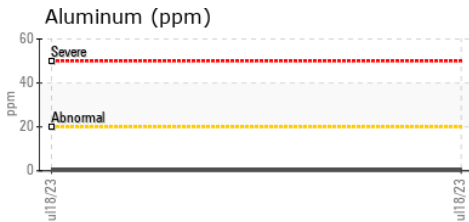
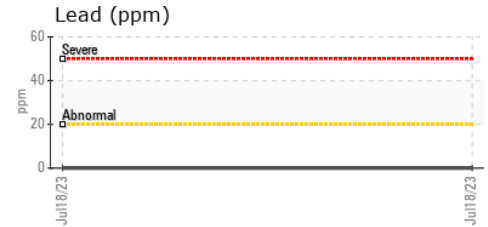
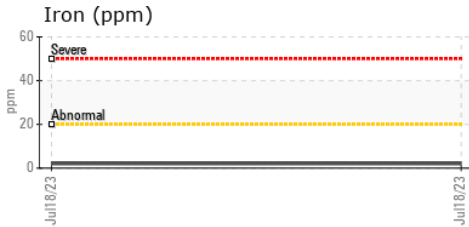
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	<b>46.4</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	7.98	<b>8.6</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	140	<b>165</b>	---	---

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0073376 **Received** : 02 Aug 2023  
**Lab Number** : **02573748** **Diagnosed** : 23 Aug 2023  
**Unique Number** : 5618799 **Diagnostician** : Bill Quesnel  
**Test Package** : MOB 1 ( Additional Tests: BottomAnalysis, FILTERPATCH, KV100, VI )

**J. RENE LAFOND INC**  
 3203 CHEM. CHARLES - LEONARD  
 MIRABEL, QC  
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 Contact: Service Manager  
 epoirier@jrenelafond.com

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.