

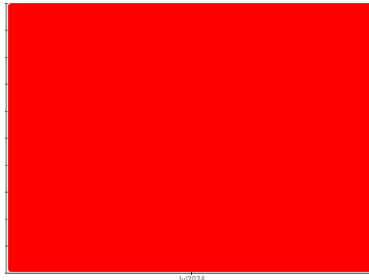
# PROBLEM SUMMARY

Sample Rating Trend

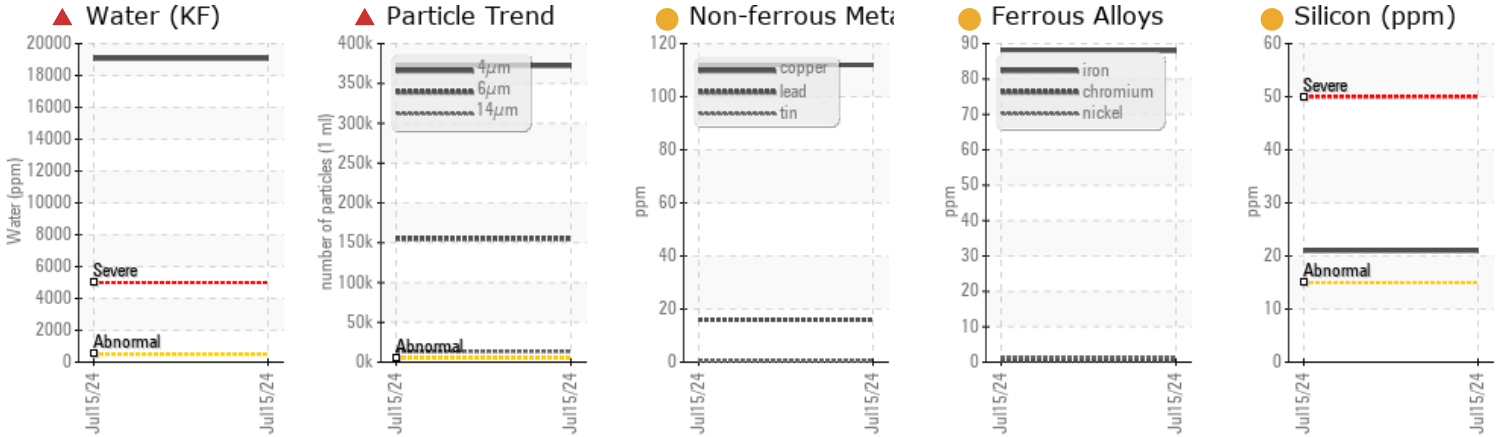
WATER



Area  
**Fenner Dunlop - F00100**  
 Machine Id  
**A2407086**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

The sample submitted is wet and 128 times dirtier than the ISO dirt count recommendation of 19/16/14.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Water	%	ASTM D6304*	>0.05	▲ <b>1.906</b>	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ <b>19069</b>	---	---
Particles >4µm		ASTM D7647	>5000	▲ <b>372274</b>	---	---
Particles >6µm		ASTM D7647	>640	▲ <b>155047</b>	---	---
Particles >14µm		ASTM D7647	>160	▲ <b>13420</b>	---	---
Particles >21µm		ASTM D7647	>40	▲ <b>3658</b>	---	---
Particles >38µm		ASTM D7647	>10	▲ <b>241</b>	---	---
Particles >71µm		ASTM D7647	>3	▲ <b>14</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16/14	▲ <b>26/24/21</b>	---	---
Appearance	scalar	Visual*	NORML	▲ <b>OILWG</b>	---	---
Emulsified Water	scalar	Visual*	>0.05	▲ <b>.5%</b>	---	---
Free Water	scalar	Visual*		▲ <b>1%</b>	---	---

Customer Id: CHECOB  
 Sample No.: E30002652  
 Lab Number: 02648153  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
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## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

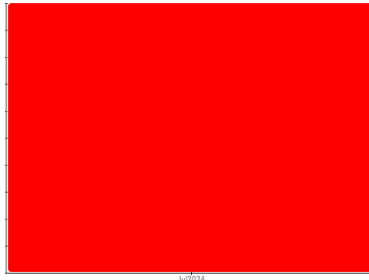
## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area  
**Fenner Dunlop - F00100**  
 Machine Id  
**A2407086**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

## DIAGNOSIS

- ▲ **Recommendation**  
 The sample submitted is wet and 128 times dirtier than the ISO dirt count recommendation of 19/16/14.
- **Wear**  
 Copper and iron ppm levels are noted.
- ▲ **Contamination**  
 Water and ppm water contamination levels are severe. Particles >14µm are severely high. Particles >21µm are severely high. Particles >38µm are severely high. Particles >6µm are severely high. Particles >4µm are severely high. Oil Cleanliness are severely high.. Oil Cleanliness are severely high... Oil Cleanliness are severely high.... Particles >71µm are abnormally high. Silicon ppm levels are notably high.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Department	Client Info		<b>Production</b>	---	---
Sample From	Client Info		<b>Machine</b>	---	---
Production Stage	Client Info		<b>Initial</b>	---	---
Sent to WC	Client Info		<b>07/15/2024</b>	---	---
Sample Number	Client Info		<b>E30002652</b>	---	---
Sample Date	Client Info		<b>15 Jul 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	● <b>88</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185(m)	>20	<b>1</b>	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	---
Lead	ppm	ASTM D5185(m)	>20	<b>16</b>	---
Copper	ppm	ASTM D5185(m)	>20	● <b>112</b>	---
Tin	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

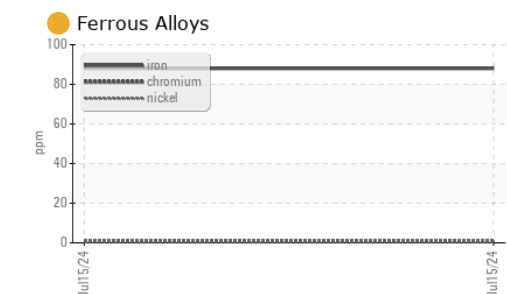
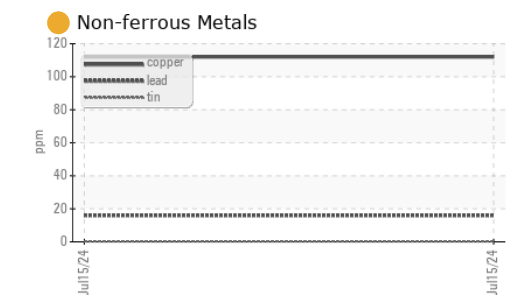
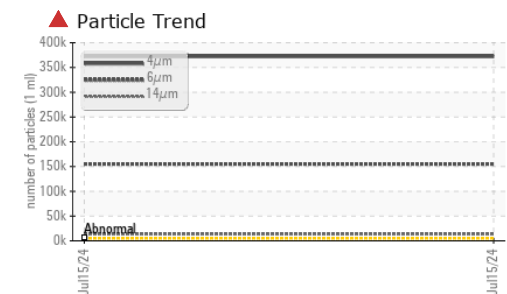
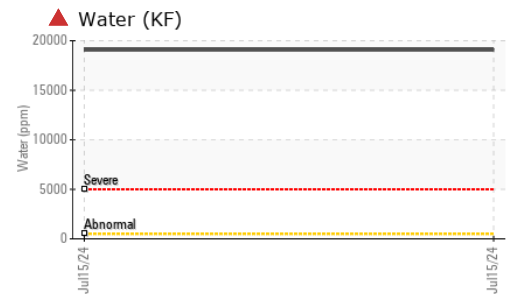
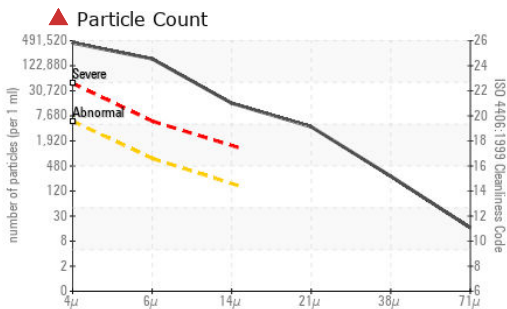
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	---
Barium	ppm	ASTM D5185(m)	5	<b>1</b>	---
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	---
Manganese	ppm	ASTM D5185(m)		<b>1</b>	---
Magnesium	ppm	ASTM D5185(m)	25	<b>24</b>	---
Calcium	ppm	ASTM D5185(m)	200	<b>87</b>	---
Phosphorus	ppm	ASTM D5185(m)	300	<b>695</b>	---
Zinc	ppm	ASTM D5185(m)	370	<b>572</b>	---
Sulfur	ppm	ASTM D5185(m)	2500	<b>2740</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	● <b>21</b>	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---
Water	%	ASTM D6304*	>0.05	▲ <b>1.906</b>	---
ppm Water	ppm	ASTM D6304*	>500	▲ <b>19069</b>	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ <b>372274</b>	---	---
Particles >6µm	ASTM D7647	>640	▲ <b>155047</b>	---	---
Particles >14µm	ASTM D7647	>160	▲ <b>13420</b>	---	---
Particles >21µm	ASTM D7647	>40	▲ <b>3658</b>	---	---
Particles >38µm	ASTM D7647	>10	▲ <b>241</b>	---	---
Particles >71µm	ASTM D7647	>3	▲ <b>14</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ <b>26/24/21</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	<b>0.77</b>	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</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>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	▲ <b>OILWG</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.05	▲ <b>.5%</b>	---	---
Free Water	scalar	Visual*		▲ <b>1%</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46	<b>48.2</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	<b>7.3</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	<b>112</b>	---	---

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30002652  
**Lab Number** : **02648153**  
**Unique Number** : 5813705  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )  
**Received** : 16 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Tatiana Sorkina

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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.