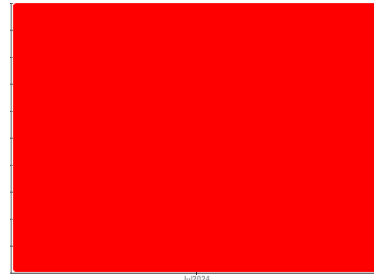


PROBLEM SUMMARY

Sample Rating Trend

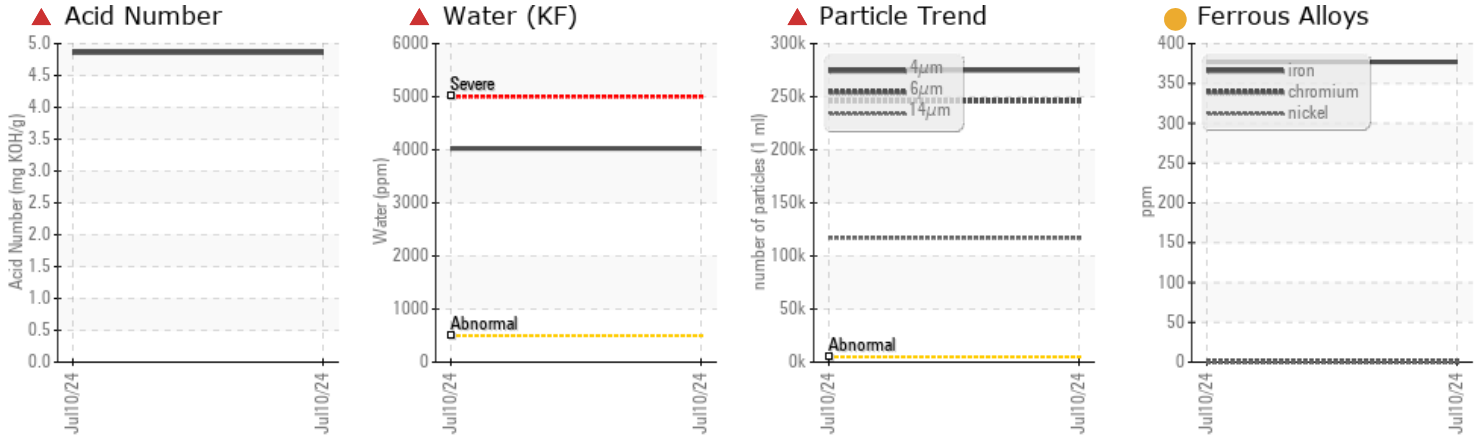


VISUAL METAL



Area
Atlas Tube - 888107
 Machine Id
RB065
 Component
Hydraulic System
 Fluid
WOCO GEAR 220/AW 46 MIX (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The sample submitted is wet and 64 times dirtier than the ISO dirt count recommendation of 19/16/14. The total Acid Number (TAN) is higher than the recommended level of 2.0. The viscosity does not match any oil type.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Water	%	ASTM D6304*	>0.05	▲ 0.402	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ 4023	---	---
Particles >4µm		ASTM D7647	>5000	▲ 274938	---	---
Particles >6µm		ASTM D7647	>640	▲ 245897	---	---
Particles >14µm		ASTM D7647	>160	▲ 116979	---	---
Particles >21µm		ASTM D7647	>40	▲ 46415	---	---
Particles >38µm		ASTM D7647	>10	▲ 1241	---	---
Particles >71µm		ASTM D7647	>3	▲ 23	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16/14	▲ 25/25/24	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		▲ 4.86	---	---
White Metal	scalar	Visual*	NONE	▲ LIGHT	---	---
Emulsified Water	scalar	Visual*	>0.05	▲ .5%	---	---

Customer Id: CHECOB
 Sample No.: E30002643
 Lab Number: 02648150
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Tatiana Sorkina +1 (800)263-3939
tsorkina@e360s.ca

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

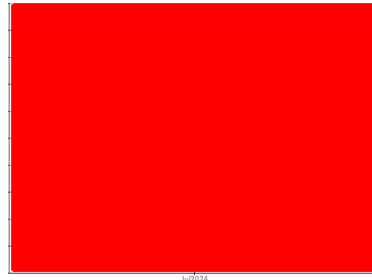
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Area

Atlas Tube - 888107

Machine Id

RB065

Component

Hydraulic System

Fluid

WOCO GEAR 220/AW 46 MIX (--- GAL)

DIAGNOSIS

▲ Recommendation

The sample submitted is wet and 64 times dirtier than the ISO dirt count recommendation of 19/16/14. The total Acid Number (TAN) is higher than the recommended level of 2.0.

The viscosity does not match any oil type.

▲ Wear

Iron ppm levels are noted.

▲ Contamination

Particles >71µm are severely high. 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. Water Water and ppm water contamination levels are abnormal.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Department	Client Info		Sales	---	---
Sample From	Client Info		Tote	---	---
Production Stage	Client Info		Initial	---	---
Sent to WC	Client Info		07/15/2024	---	---
Sample Number	Client Info		E30002643	---	---
Sample Date	Client Info		10 Jul 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	● 377	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---
Nickel	ppm	ASTM D5185(m)	>20	<1	---
Titanium	ppm	ASTM D5185(m)		<1	---
Silver	ppm	ASTM D5185(m)		0	---
Aluminum	ppm	ASTM D5185(m)	>20	1	---
Lead	ppm	ASTM D5185(m)	>20	0	---
Copper	ppm	ASTM D5185(m)	>20	13	---
Tin	ppm	ASTM D5185(m)	>20	0	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

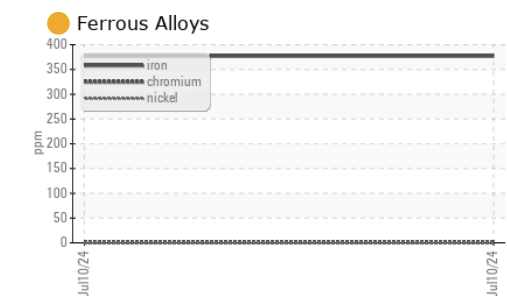
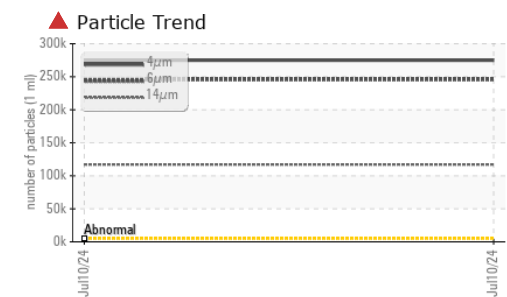
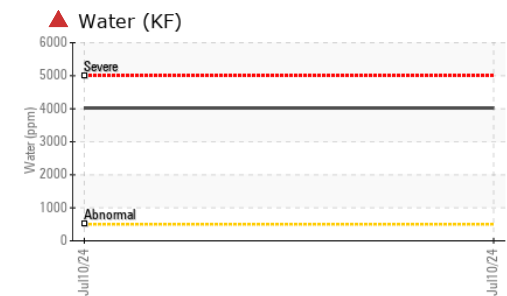
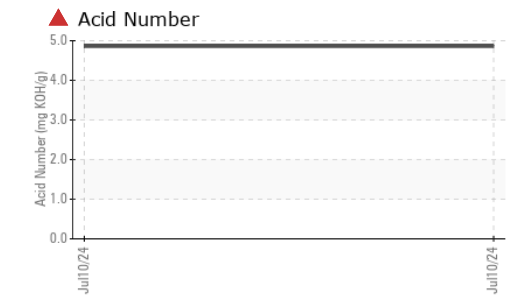
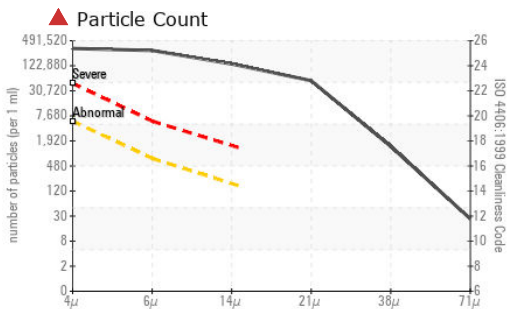
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		7	---
Barium	ppm	ASTM D5185(m)		<1	---
Molybdenum	ppm	ASTM D5185(m)		0	---
Manganese	ppm	ASTM D5185(m)		4	---
Magnesium	ppm	ASTM D5185(m)		2	---
Calcium	ppm	ASTM D5185(m)		27	---
Phosphorus	ppm	ASTM D5185(m)		93	---
Zinc	ppm	ASTM D5185(m)		11	---
Sulfur	ppm	ASTM D5185(m)		746	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	---
Sodium	ppm	ASTM D5185(m)		<1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---
Water	%	ASTM D6304*	>0.05	▲ 0.402	---
ppm Water	ppm	ASTM D6304*	>500	▲ 4023	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 274938	---	---
Particles >6µm	ASTM D7647	>640	▲ 245897	---	---
Particles >14µm	ASTM D7647	>160	▲ 116979	---	---
Particles >21µm	ASTM D7647	>40	▲ 46415	---	---
Particles >38µm	ASTM D7647	>10	▲ 1241	---	---
Particles >71µm	ASTM D7647	>3	▲ 23	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 25/25/24	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	▲ 4.86	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	LIGHT	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	▲ .5%	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	49.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	165	---	---

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30002643
Lab Number : 02648150
Unique Number : 5813702
Test Package : IND 2 (Additional Tests: Bottom, KF, KV100, VI)

Environmental 360 Solutions Ltd.
 640 Victoria Street
 Cobourg, ON
 CA K9A 5H5
 Contact: Tatiana Sorkina
 tsorkina@e360s.ca
 T: (800)263-3939
 F: (905)373-4950

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.