

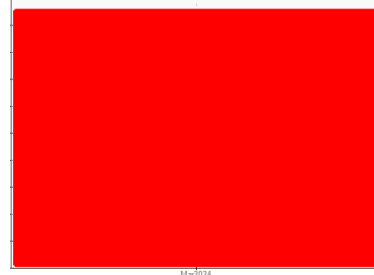
PROBLEM SUMMARY

Sample Rating Trend

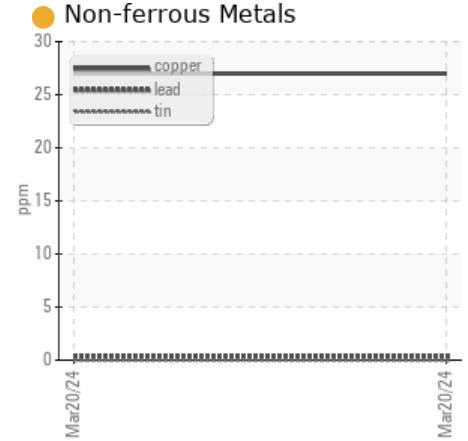
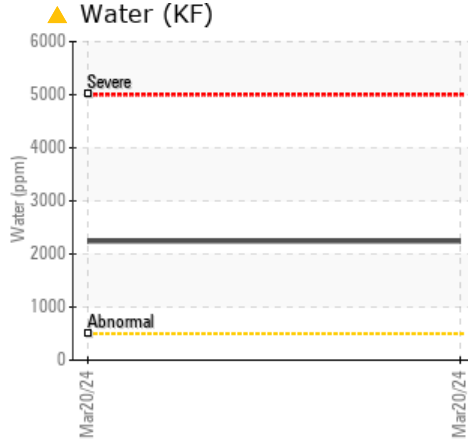
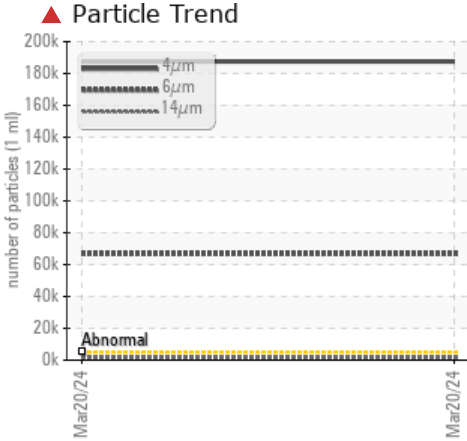
ISO



Area
K.P.M. - K01600
 Machine Id
M13385
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- LTR)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

The sample submitted is wet and 64 times dirtier than the ISO dirt count recommendation of 19/16/14.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Water	%	ASTM D6304*	>0.05	▲ 0.224	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ 2241	---	---
Particles >4µm		ASTM D7647	>5000	▲ 187490	---	---
Particles >6µm		ASTM D7647	>640	▲ 66821	---	---
Particles >14µm		ASTM D7647	>160	▲ 1493	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16/14	▲ 25/23/18	---	---
Free Water	scalar	Visual*		▲ 1%	---	---

Customer Id: CHECOB
 Sample No.: E30001741
 Lab Number: 02624254
 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



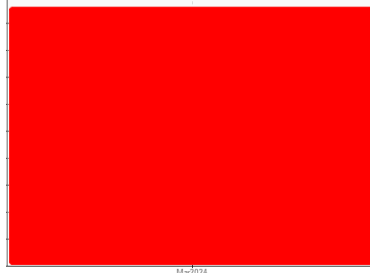
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
K.P.M. - K01600
Machine Id
M13385
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- LTR)



DIAGNOSIS

▲ Recommendation

The sample submitted is wet and 64 times dirtier than the ISO dirt count recommendation of 19/16/14.

● Wear

Copper ppm levels are noted.

▲ Contamination

ppm Water and water contamination levels are abnormal. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Oil Cleanliness are abnormally high. Particles >14µm are abnormally high.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		Mobile	---	---
Department	Client Info		Production	---	---
Sample From	Client Info		Machine	---	---
Production Stage	Client Info		Initial	---	---
Sent to WC	Client Info		03/21/2024	---	---
Sample Number	Client Info		E30001741	---	---
Sample Date	Client Info		20 Mar 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	8	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>20	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	---	---
Lead	ppm	ASTM D5185(m)	>20	<1	---	---
Copper	ppm	ASTM D5185(m)	>20	27	---	---
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	---	---

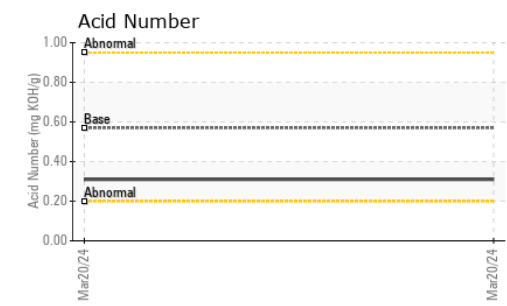
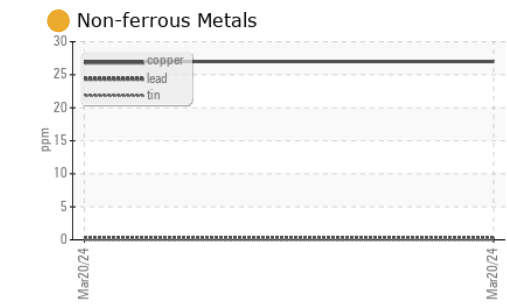
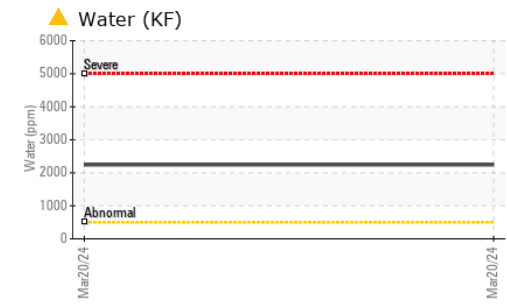
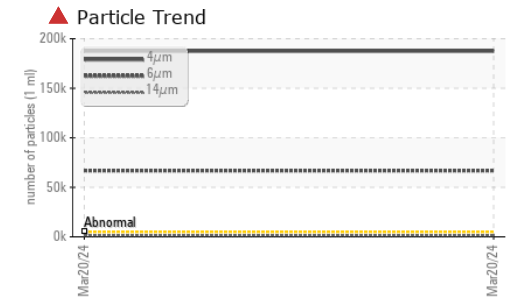
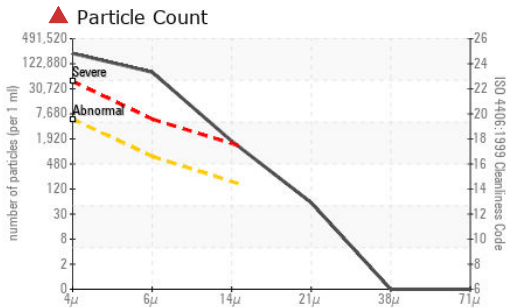
ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	5	<1	---	---
Barium	ppm	ASTM D5185(m)	5	0	---	---
Molybdenum	ppm	ASTM D5185(m)	5	0	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	25	12	---	---
Calcium	ppm	ASTM D5185(m)	200	33	---	---
Phosphorus	ppm	ASTM D5185(m)	300	272	---	---
Zinc	ppm	ASTM D5185(m)	370	276	---	---
Sulfur	ppm	ASTM D5185(m)	2500	989	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	0	---	---
Sodium	ppm	ASTM D5185(m)		<1	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Water	%	ASTM D6304*	>0.05	▲ 0.224	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ 2241	---	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30001741 **Received** : 25 Mar 2024
Lab Number : **02624254** **Tested** : 26 Mar 2024
Unique Number : 5749373 **Diagnosed** : 27 Mar 2024 - Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

Environmental 360 Solutions Ltd.
 640 Victoria Street
 Cobourg, ON
 CA K9A 5H5
 Contact: Jake Debruyn
 jdebruyn@e360s.ca
 T:
 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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 187490	---	---
Particles >6µm	ASTM D7647	>640	▲ 66821	---	---
Particles >14µm	ASTM D7647	>160	▲ 1493	---	---
Particles >21µm	ASTM D7647	>40	50	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 25/23/18	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.31	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	HAZY	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.05	.2%	---	---
Free Water	scalar	Visual*		▲ 1%	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46	44.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	6.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	107	---	---

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