



# PROBLEM SUMMARY

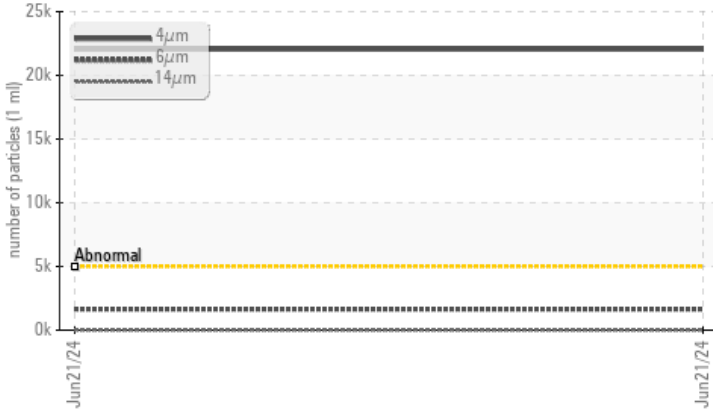
Area  
**Cavendish Farms - 888026**  
 Machine Id  
**RB019-R**  
 Component  
**Hydraulic System**  
 Fluid  
**HYDRAULIC OIL FG 32 (--- GAL)**

## Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

The sample submitted is 8 times dirtier than the ISO dirt count recommendation of 19/16/14.

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
Particles >4µm	ASTM D7647 >5000 ▲ <b>22037</b>	---	---
Particles >6µm	ASTM D7647 >640 ▲ <b>1645</b>	---	---
Oil Cleanliness	ISO 4406 (c) >19/16/14 ▲ <b>22/18/10</b>	---	---

Customer Id: CHECOB  
 Sample No.: E30002486  
 Lab Number: 02644055  
 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](mailto:tsorkina@e360s.ca)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**Cavendish Farms - 888026**  
 Machine ID  
**RB019-R**  
 Component  
**Hydraulic System**  
 Fluid  
**HYDRAULIC OIL FG 32 (--- GAL)**

## DIAGNOSIS

- Recommendation**  
The sample submitted is 8 times dirtier than the ISO dirt count recommendation of 19/16/14.
- Contamination**  
Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Machine ID	Client Info		Main Hyd System	---	---
Department	Client Info		Sales	---	---
Sample From	Client Info		Machine	---	---
Production Stage	Client Info		Lab Reclaim	---	---
Sent to WC	Client Info		06/21/2024	---	---
Sample Number	Client Info		E30002486	---	---
Sample Date	Client Info		21 Jun 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	2	---	---
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	0	---	---
Copper	ppm	ASTM D5185(m) >20	2	---	---
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	---	---

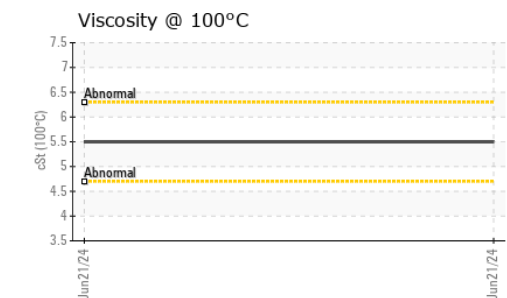
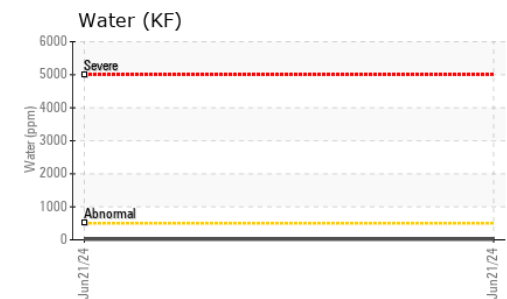
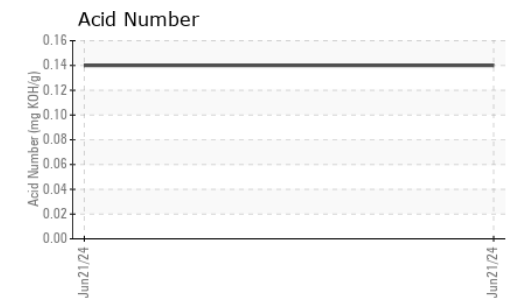
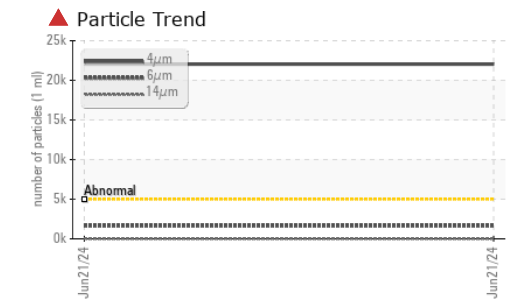
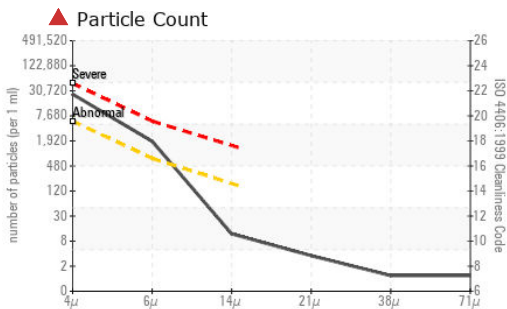
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m)	<1	---	---
Calcium	ppm	ASTM D5185(m)	<1	---	---
Phosphorus	ppm	ASTM D5185(m)	79	---	---
Zinc	ppm	ASTM D5185(m)	4	---	---
Sulfur	ppm	ASTM D5185(m)	2153	---	---
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)	0	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---
Water	%	ASTM D6304* >0.05	0.002	---	---
ppm Water	ppm	ASTM D6304* >500	18	---	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ <b>22037</b>	---	---
Particles >6µm	ASTM D7647	>640	▲ <b>1645</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>10</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>3</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ <b>22/18/10</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*		<b>0.14</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>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>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)		<b>32.7</b>	---	---
Visc @ 100°C	cSt ASTM D7279(m)		<b>5.5</b>	---	---
Viscosity Index (VI)	Scale ASTM D2270*		<b>103</b>	---	---

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.** : E30002486  
**Lab Number** : **02644055**  
**Unique Number** : 5801594  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )  
**Received** : 25 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Tatiana Sorkina

**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.