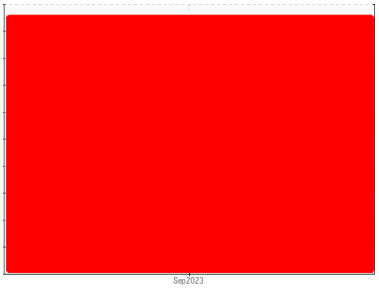
PROBLEM SUMMARY

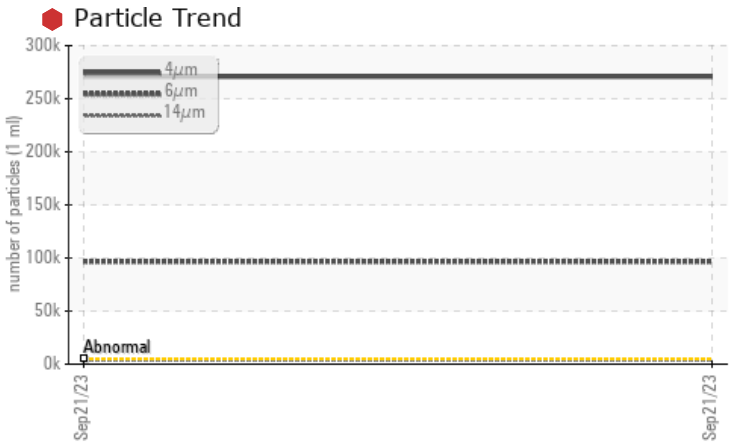
Area
Core Molding - C16700
Machine Id
M1 3314
Component
Hydraulic System
Fluid
NOT GIVEN (--- GAL)

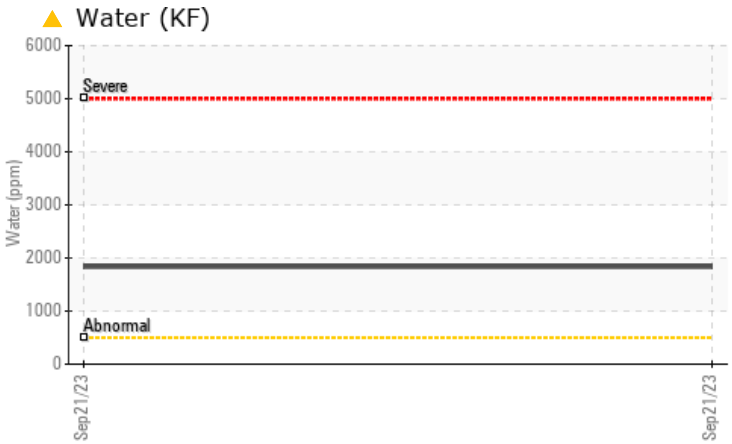
Sample Rating Trend



ISO

COMPONENT CONDITION SUMMARY





RECOMMENDATION

This is a baseline read-out on the submitted sample.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Water	%	ASTM D6304*	>0.05	▲ **0.183**	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ **1835.4**	---	---
Particles >4µm		ASTM D7647	>5000	⬢ **270768**	---	---
Particles >6µm		ASTM D7647	>1300	⬢ **96606**	---	---
Particles >14µm		ASTM D7647	>160	⬢ **4013**	---	---
Particles >21µm		ASTM D7647	>40	⬢ **642**	---	---
Particles >38µm		ASTM D7647	>10	▲ **17**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	⬢ **25/24/19**	---	---

Customer Id: CHECOB
Sample No.: E30000434
Lab Number: 02586419
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

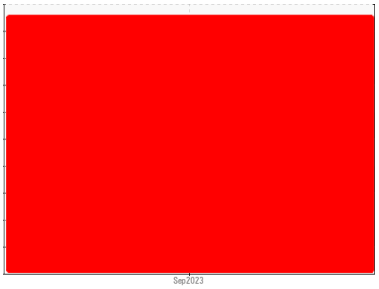
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Core Molding - C16700
Machine Id
M1 3314
Component
Hydraulic System
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample.

Wear
Copper and iron ppm levels are noted.

Contamination
Particles >14µm are severely high. Particles >21µm are severely high. Particles >6µm are severely high. Oil Cleanliness are severely high. Particles >4µm are severely high. Water and ppm water contamination levels are abnormal. Particles >38µm are notably high.

Fluid Condition
{not applicable}

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Batch #		Client Info		**Mobile**	---	---
Machine ID		Client Info		**M1 3314**	---	---
Department		Client Info		**Production**	---	---
Sample From		Client Info		**Machine**	---	---
Production Stage		Client Info		**Initial**	---	---
Sent to WC		Client Info		**09/29/2023**	---	---
Sample Number		Client Info		**E30000434**	---	---
Sample Date		Client Info		**21 Sep 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**SEVERE**	---	---

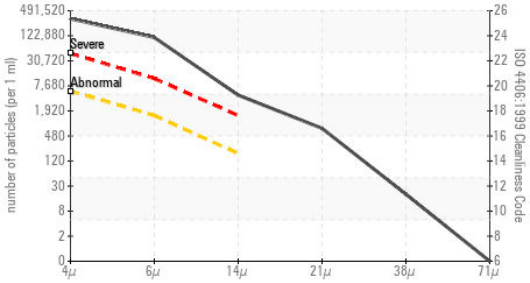
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	---	---
Iron	ppm	ASTM D5185(m)	>20	**29**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**0**	---	---
Nickel	ppm	ASTM D5185(m)	>20	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**3**	---	---
Lead	ppm	ASTM D5185(m)	>20	**4**	---	---
Copper	ppm	ASTM D5185(m)	>20	**45**	---	---
Tin	ppm	ASTM D5185(m)	>20	**<1**	---	---
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)		**<1**	---	---
Barium	ppm	ASTM D5185(m)		**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)		**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**5**	---	---
Calcium	ppm	ASTM D5185(m)		**44**	---	---
Phosphorus	ppm	ASTM D5185(m)		**834**	---	---
Zinc	ppm	ASTM D5185(m)		**499**	---	---
Sulfur	ppm	ASTM D5185(m)		**2740**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

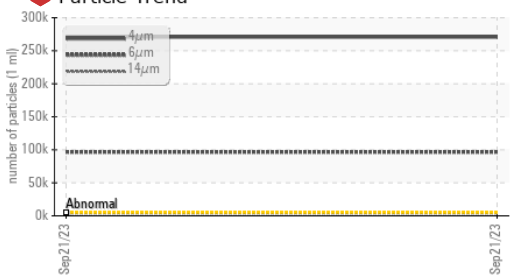
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**11**	---	---
Sodium	ppm	ASTM D5185(m)		**<1**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Water	%	ASTM D6304*	>0.05	▲ **0.183**	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ **1835.4**	---	---

OIL ANALYSIS REPORT

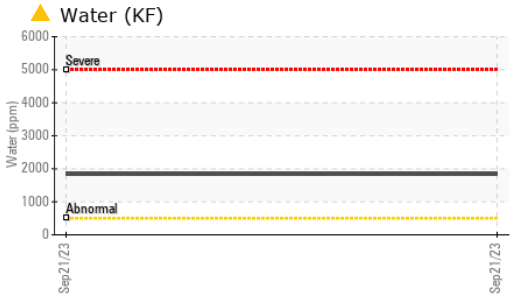
Particle Count



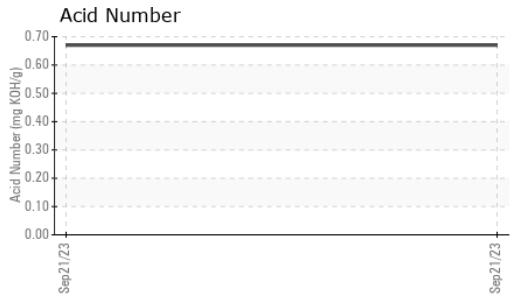
Particle Trend



Water (KF)



Acid Number



PQ

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**270768**	---	---
Particles >6µm		ASTM D7647	>1300	**96606**	---	---
Particles >14µm		ASTM D7647	>160	**4013**	---	---
Particles >21µm		ASTM D7647	>40	**642**	---	---
Particles >38µm		ASTM D7647	>10	**17**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**25/24/19**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.67**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**VLITE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
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)		**71.1**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		**8.5**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		**87**	---	---

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

CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000434 **Received** : 03 Oct 2023
Lab Number : 02586419 **Diagnosed** : 05 Oct 2023
Unique Number : 5655485 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI)

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.

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