

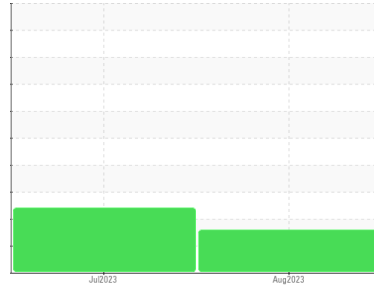


OIL ANALYSIS REPORT



Area
Action Newark
 Machine Id
CATERPILLAR 330MHL 5580 (S/N D3C00282)
 Component
Left Final Drive
 Fluid
NOT GIVEN (--- GAL)

Sample Rating Trend



WATER



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate concentration of water present in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0774698	WC0831072	---
Sample Date	Client Info		15 Aug 2023	22 Jul 2023	---
Machine Age	hrs	Client Info	33838	33726	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	354	607	---
Chromium	ppm	ASTM D5185m >10	10	▲ 15	---
Nickel	ppm	ASTM D5185m >5	<1	<1	---
Titanium	ppm	ASTM D5185m >15	1	2	---
Silver	ppm	ASTM D5185m >2	0	<1	---
Aluminum	ppm	ASTM D5185m >75	8	21	---
Lead	ppm	ASTM D5185m >10	<1	<1	---
Copper	ppm	ASTM D5185m >75	2	4	---
Tin	ppm	ASTM D5185m >8	0	0	---
Vanadium	ppm	ASTM D5185m	<1	1	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	7	<1	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	8	13	---
Manganese	ppm	ASTM D5185m	3	5	---
Magnesium	ppm	ASTM D5185m	12	19	---
Calcium	ppm	ASTM D5185m	723	766	---
Phosphorus	ppm	ASTM D5185m	480	598	---
Zinc	ppm	ASTM D5185m	374	435	---
Sulfur	ppm	ASTM D5185m	18086	24594	---

CONTAMINANTS

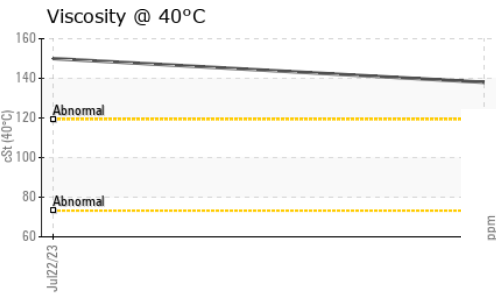
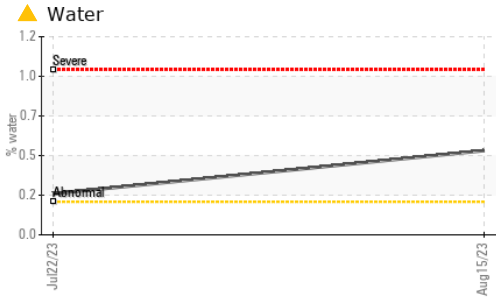
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	65	124	---
Sodium	ppm	ASTM D5185m	6	10	---
Potassium	ppm	ASTM D5185m >20	4	7	---
Water	%	ASTM D6304 >0.2	▲ 0.510	▲ 0.249	---
ppm Water	ppm	ASTM D6304 >2000	▲ 5100	▲ 2490	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.2	0.2%	0.2%	---
Free Water	scalar	*Visual	NEG	NEG	---



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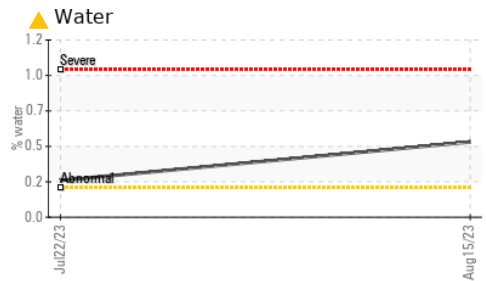
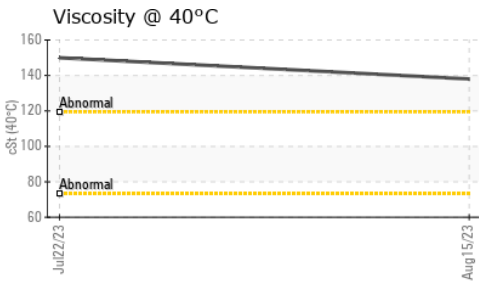
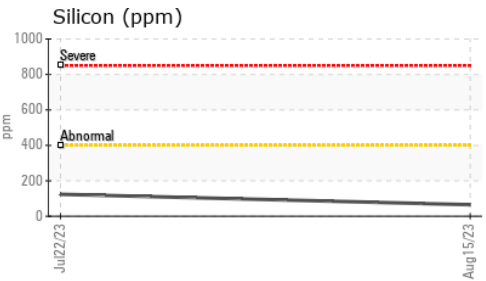
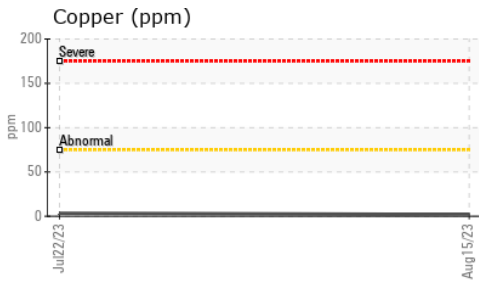
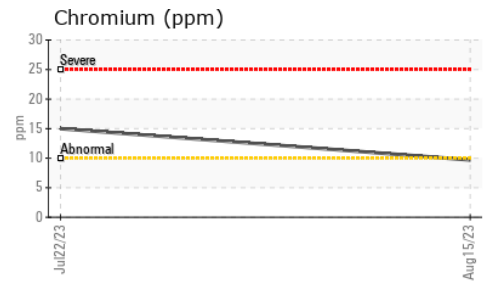
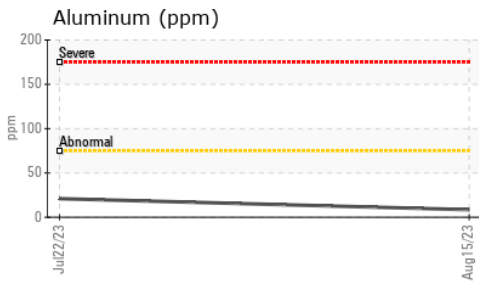
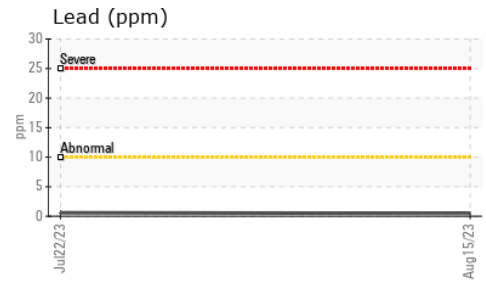
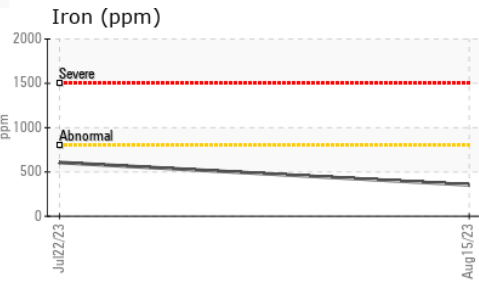


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	138	150	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0774698 **Received** : 22 Aug 2023
Lab Number : 05931051 **Diagnosed** : 24 Aug 2023
Unique Number : 10616322 **Diagnostician** : Sean Felton
Test Package : MOB 1 (Additional Tests: KF)

EVERGREEN RECYCLING SOLUTIONS
 110 EVERGREEN AVE
 NEWARK, NJ
 US 07114
 Contact: OPERATIONS
 OPERATIONS@EVERGREENRECYCLING.COM

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: