



OIL ANALYSIS REPORT

Sample Rating Trend

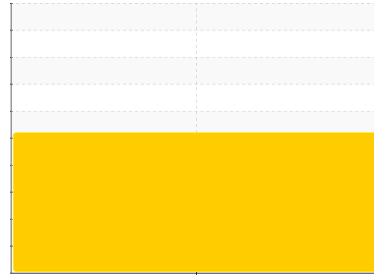
WATER



Machine Id
COMMACHIC MC-8D 4120021

Component
Gearbox

Fluid
GEAR OIL SAE 80W90 (--- QTS)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

Appearance is unacceptable There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WCMC153568	---	---
Sample Date	Client Info		24 Apr 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
Iron	ppm	ASTM D5185m	>200	▲ 756	---
Chromium	ppm	ASTM D5185m	>10	4	---
Nickel	ppm	ASTM D5185m	>10	0	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	3	---
Lead	ppm	ASTM D5185m	>50	0	---
Copper	ppm	ASTM D5185m	>200	10	---
Tin	ppm	ASTM D5185m	>10	2	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	30	---
Barium	ppm	ASTM D5185m	200	0	---
Molybdenum	ppm	ASTM D5185m	12	1	---
Manganese	ppm	ASTM D5185m		8	---
Magnesium	ppm	ASTM D5185m	12	11	---
Calcium	ppm	ASTM D5185m	150	23	---
Phosphorus	ppm	ASTM D5185m	1650	585	---
Zinc	ppm	ASTM D5185m	125	37	---
Sulfur	ppm	ASTM D5185m	22500	18300	---

CONTAMINANTS

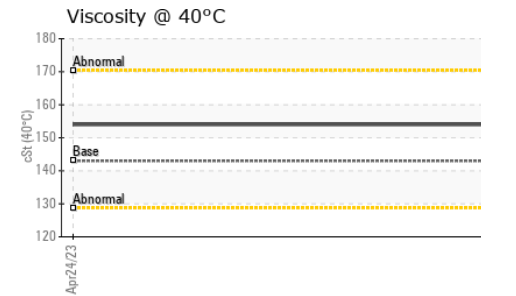
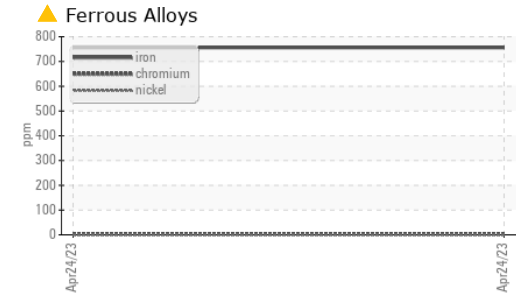
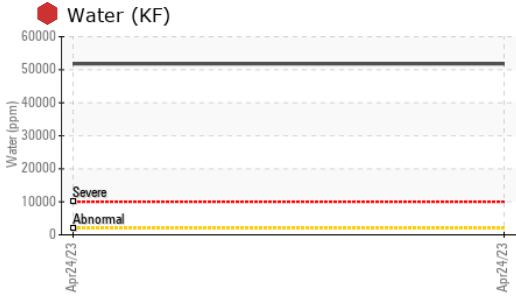
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	15	---
Sodium	ppm	ASTM D5185m	>170	0	---
Potassium	ppm	ASTM D5185m	>20	2	---
Water	%	ASTM D6304	>0.2	● 5.18	---
ppm Water	ppm	ASTM D6304	>2000	● 51800	---

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	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	▲ MILKY	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	● 0.2%	---
Free Water	scalar	*Visual		NEG	---



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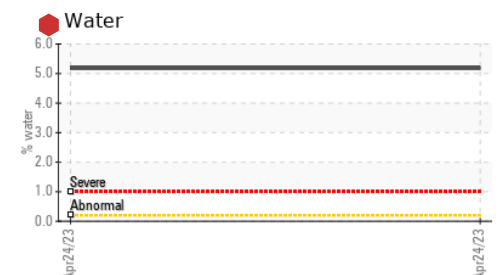
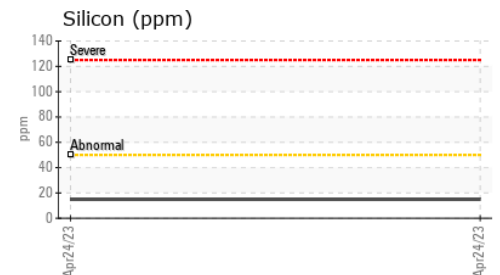
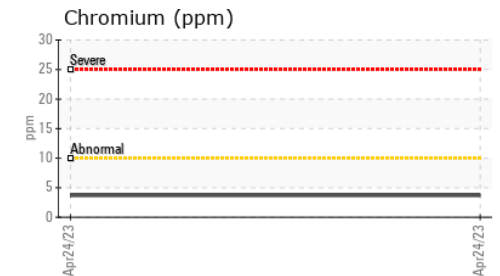
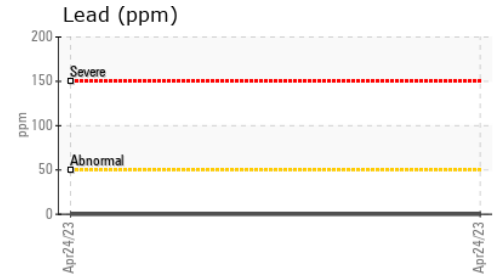
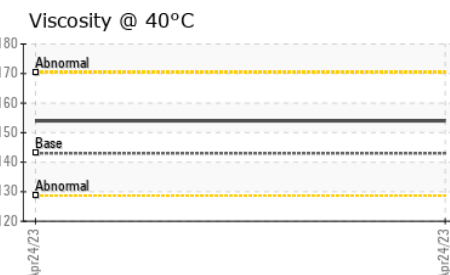
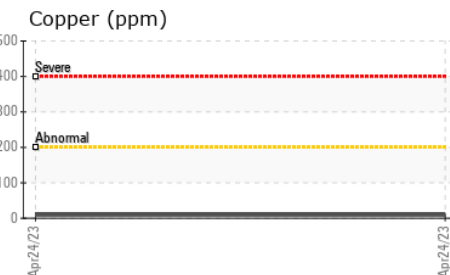
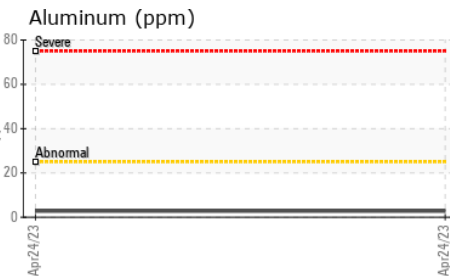
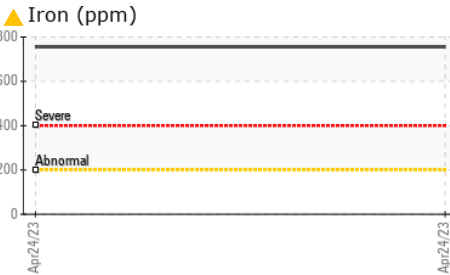


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	154	---	---

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. : WCMC153568 **Received** : 24 Apr 2023
Lab Number : 05828556 **Diagnosed** : 27 Apr 2023
Unique Number : 10442049 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: KF)

KELLER-NA - KERNERSVILLE
 1024 EAST MOUNTAIN ST
 KERNERSVILLE, NC
 US 27284
 Contact: KEN COOK
 KENNETH.COOK@KELLER-NA.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)

F: (336)668-3259