



PROBLEM SUMMARY

Sample Rating Trend

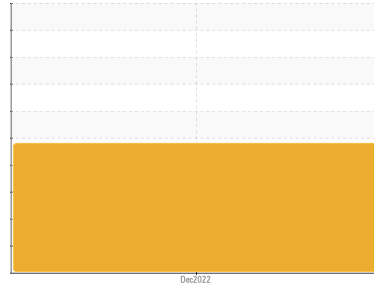
DEGRADATION



Machine Id
C-FLUTE MEDIUM REWIDER

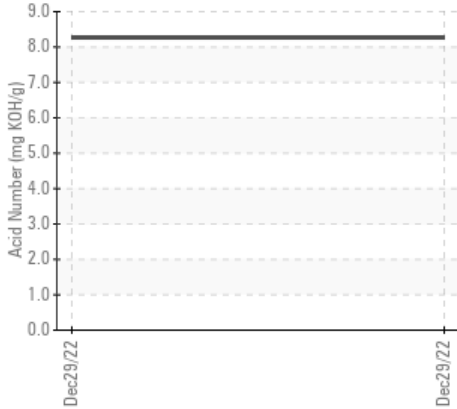
Component
Gearbox

Fluid
SHELL OMALA 220 (2 LTR)

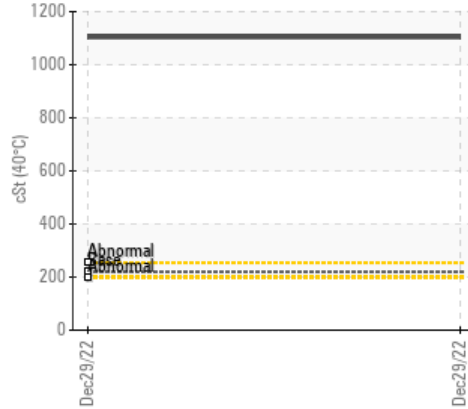


COMPONENT CONDITION SUMMARY

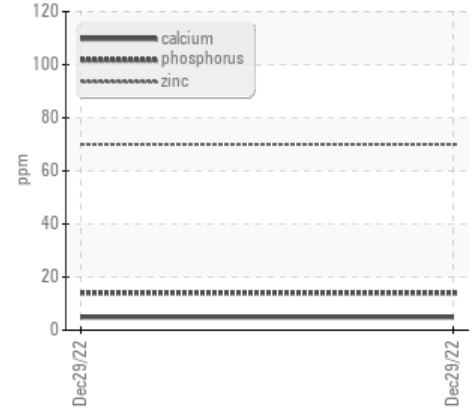
Acid Number



Viscosity @ 40°C



Additives



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Phosphorus	ppm	ASTM D5185(m)	215	▲ 14	---	---
Zinc	ppm	ASTM D5185(m)	0	▲ 70	---	---
Sulfur	ppm	ASTM D5185(m)	7039	▲ 3547	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		● 8.27	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 1104	---	---

Customer Id: IVEMIS
Sample No.: WC0763608
Lab Number: 02533191
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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Kevin.Marson@wearcheck.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

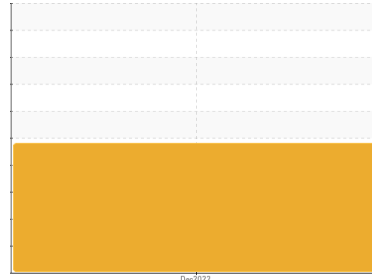
HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id
C-FLUTE MEDIUM REWIDER

Component
Gearbox
Fluid
SHELL OMALA 220 (2 LTR)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is higher than normal. The high AN level of the oil indicates the presence of oxidized products. The AN level is much higher than the recommended limit. Viscosity of sample indicates oil is within ISO 1000 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0763608	---	---
Sample Date	Client Info		29 Dec 2022	---	---
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*		4	---	---
Iron	ppm	ASTM D5185(m) >200	72	---	---
Chromium	ppm	ASTM D5185(m) >15	0	---	---
Nickel	ppm	ASTM D5185(m) >15	<1	---	---
Titanium	ppm	ASTM D5185(m)	<1	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >25	4	---	---
Lead	ppm	ASTM D5185(m) >100	5	---	---
Copper	ppm	ASTM D5185(m) >200	155	---	---
Tin	ppm	ASTM D5185(m) >25	<1	---	---
Antimony	ppm	ASTM D5185(m) >5	<1	---	---
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) 4.4	2	---	---
Barium	ppm	ASTM D5185(m) 0.0	1	---	---
Molybdenum	ppm	ASTM D5185(m) 0	0	---	---
Manganese	ppm	ASTM D5185(m)	3	---	---
Magnesium	ppm	ASTM D5185(m) 0	5	---	---
Calcium	ppm	ASTM D5185(m) 0	5	---	---
Phosphorus	ppm	ASTM D5185(m) 215	▲ 14	---	---
Zinc	ppm	ASTM D5185(m) 0	▲ 70	---	---
Sulfur	ppm	ASTM D5185(m) 7039	▲ 3547	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	12	---	---
Sodium	ppm	ASTM D5185(m)	2	---	---
Potassium	ppm	ASTM D5185(m) >20	1	---	---

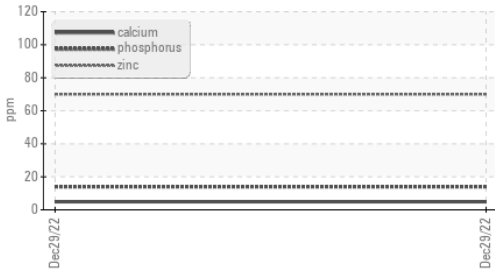
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	8.27	---	---

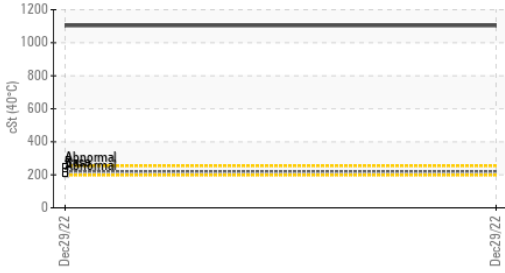


OIL ANALYSIS REPORT

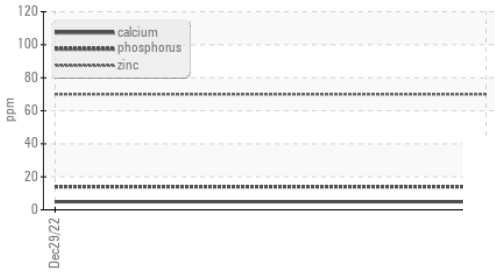
▲ Additives



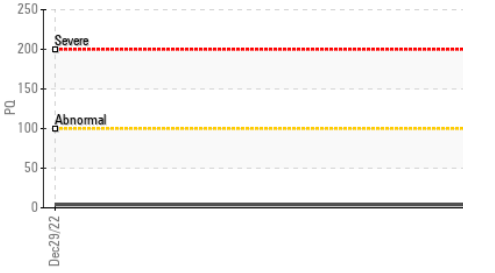
▲ Viscosity @ 40°C



▲ Additives



PQ



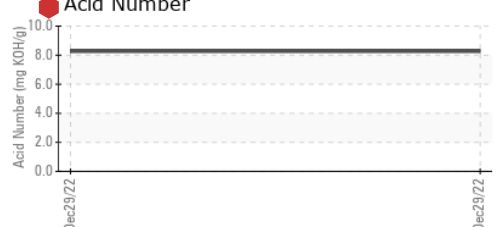
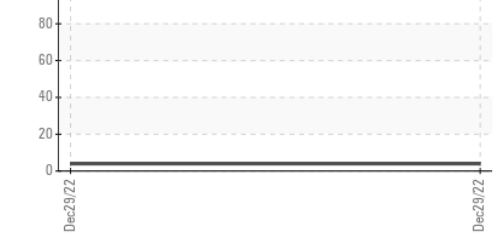
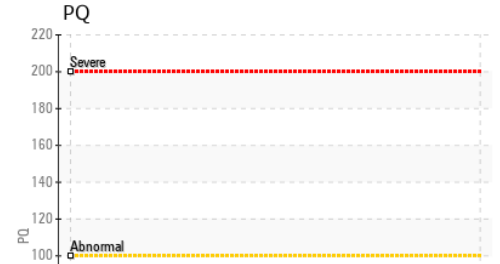
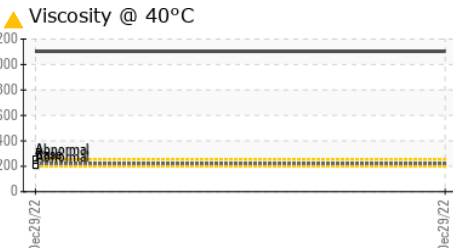
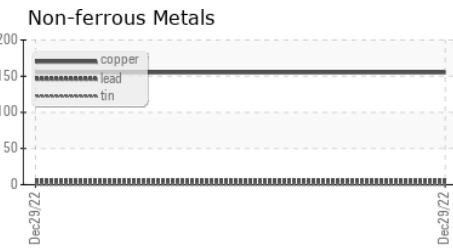
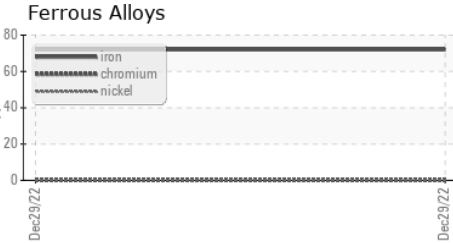
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	LIGHT	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 1104	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0763608 **Received** : 13 Jan 2023
Lab Number : 02533191 **Diagnosed** : 16 Jan 2023
Unique Number : 5514190 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

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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.