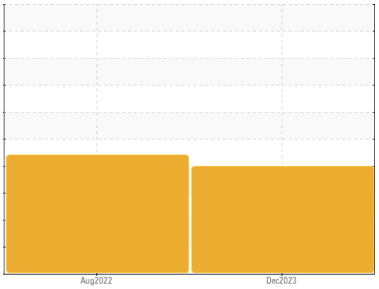
PROBLEM SUMMARY

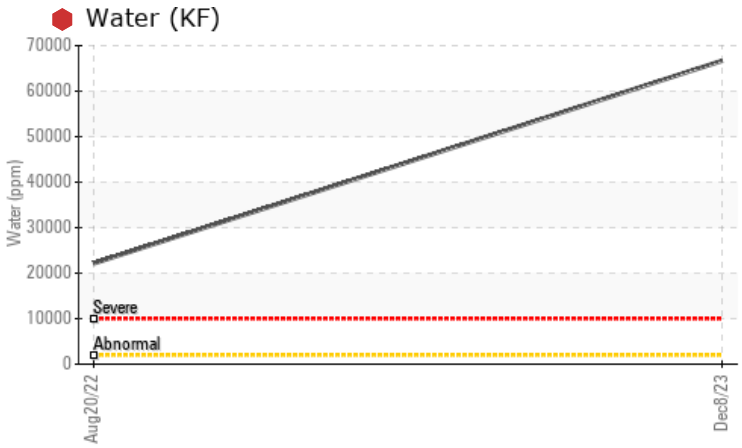
Sample Rating Trend



WATER

Machine Id
SEAMER
Component
1 Gearbox
Fluid
GEAR OIL SAE 90 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Water	%	ASTM D6304*	>0.2	**6.667**	2.214	---
ppm Water	ppm	ASTM D6304*	>2000	**66671**	22142.4	---
Appearance	scalar	Visual*	NORML	**WGOIL**	MILKY	---
Emulsified Water	scalar	Visual*	>0.2	**.2%**	.2%	---

Customer Id: LABSTJ
Sample No.: PC0080618
Lab Number: 02615148
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
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.
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

WATER

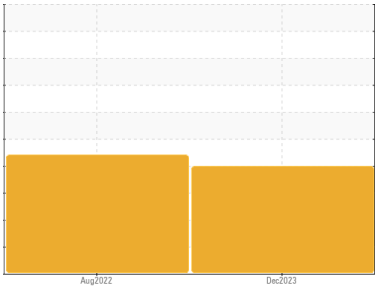
20 Aug 2022 Diag: Kevin Marson

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a high concentration of water present in the oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
SEAMER
Component
1 Gearbox
Fluid
GEAR OIL SAE 90 (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. 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 high concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0080618**	PC0052868	---
Sample Date		Client Info		**08 Dec 2023**	20 Aug 2022	---
Machine Age	yrs	Client Info		**0**	0	---
Oil Age	yrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	5	---
Iron	ppm	ASTM D5185(m)	>200	**8**	38	---
Chromium	ppm	ASTM D5185(m)	>15	**0**	<1	---
Nickel	ppm	ASTM D5185(m)	>15	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)		**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	1	---
Lead	ppm	ASTM D5185(m)	>100	**<1**	0	---
Copper	ppm	ASTM D5185(m)	>200	**1**	1	---
Tin	ppm	ASTM D5185(m)	>25	**0**	0	---
Antimony	ppm	ASTM D5185(m)	>5	**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

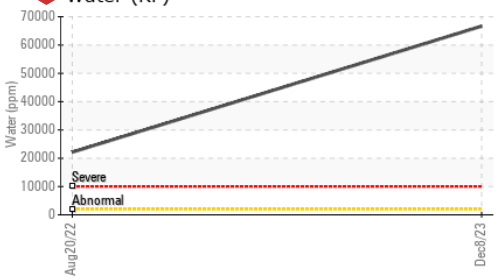
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	400	**141**	26	---
Barium	ppm	ASTM D5185(m)	200	**0**	0	---
Molybdenum	ppm	ASTM D5185(m)	12	**0**	0	---
Manganese	ppm	ASTM D5185(m)		**0**	<1	---
Magnesium	ppm	ASTM D5185(m)	12	**2**	<1	---
Calcium	ppm	ASTM D5185(m)	150	**4**	1	---
Phosphorus	ppm	ASTM D5185(m)	1650	**1024**	258	---
Zinc	ppm	ASTM D5185(m)	125	**6**	4	---
Sulfur	ppm	ASTM D5185(m)	22500	**18815**	14457	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**3**	13	---
Sodium	ppm	ASTM D5185(m)		**<1**	1	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	1	---
Water	%	ASTM D6304*	>0.2	**6.667**	2.214	---
ppm Water	ppm	ASTM D6304*	>2000	**66671**	22142.4	---

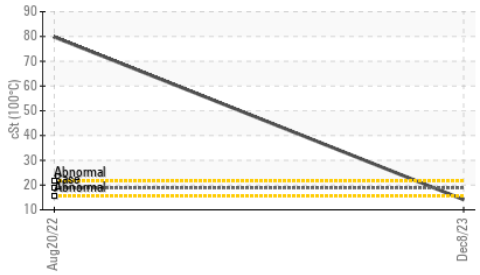
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	2.00	**1.49**	0.45	---

OIL ANALYSIS REPORT

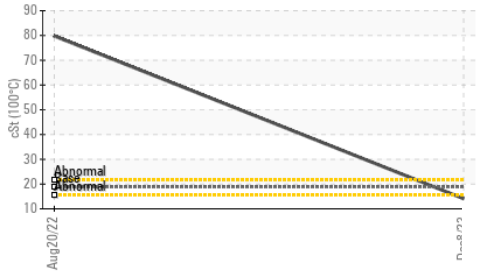
Water (KF)



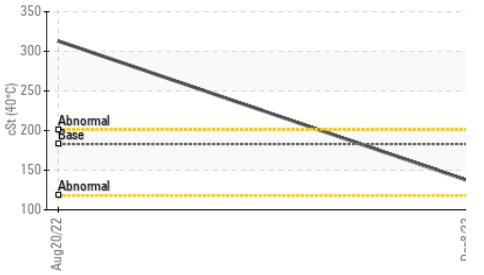
Viscosity @ 100°C



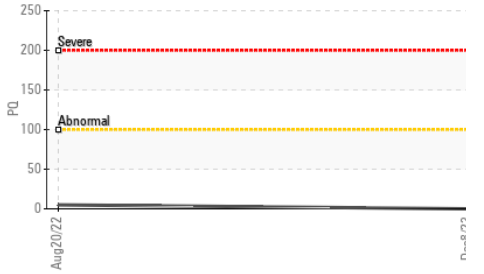
Viscosity @ 100°C



Viscosity @ 40°C

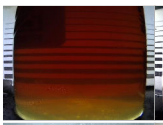
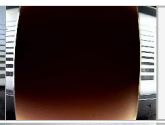


PQ



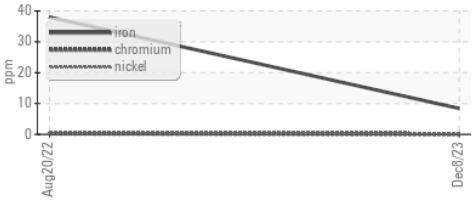
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**VLITE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**NONE**	NONE	---
Debris	scalar	Visual*	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	---
Appearance	scalar	Visual*	NORML	▲ **WGOIL**	▲ MILKY	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ **.2%**	▲ .2%	---
Free Water	scalar	Visual*		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	183	**137**	▲ 313	---
Visc @ 100°C	cSt	ASTM D7279(m)	18.8	**14.1**	79.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	115	**99**	323	---

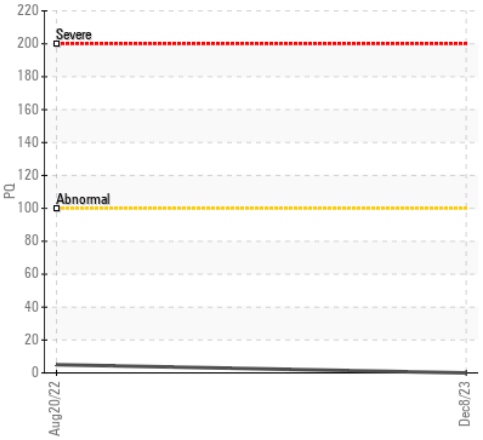
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

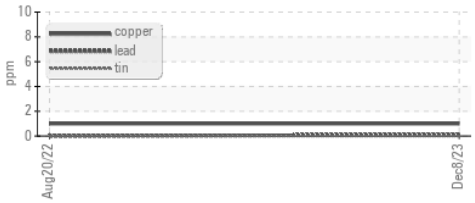
Ferrous Alloys



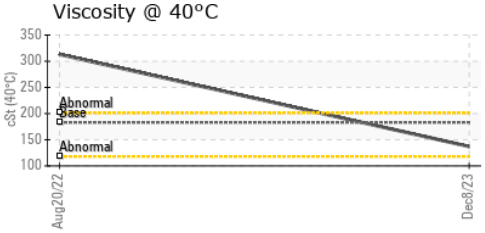
PQ



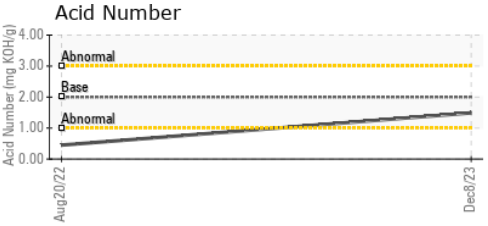
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080618 **Received** : 12 Feb 2024
Lab Number : 02615148 **Tested** : 15 Feb 2024
Unique Number : 5724243 **Diagnosed** : 15 Feb 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF, KV100, TAN Man, 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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