

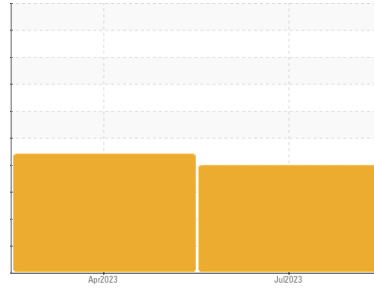
PROBLEM SUMMARY

Sample Rating Trend

WATER

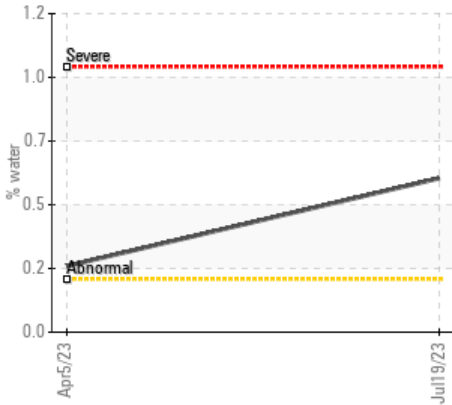


Area
MEK
Machine Id
[MEK] A-Filter
Component
Gearbox
Fluid
GEAR OIL ISO 680 (4 GAL)

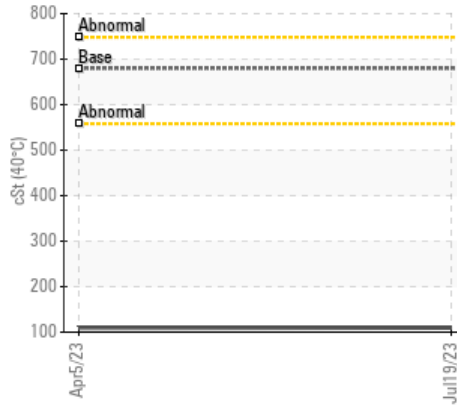


COMPONENT CONDITION SUMMARY

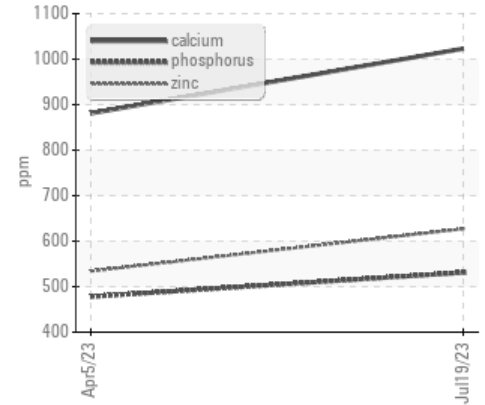
▲ Water



▲ Viscosity @ 40°C



▲ Additives



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	---
Boron	ppm	ASTM D5185m	50	▲ 103	89	---
Molybdenum	ppm	ASTM D5185m	15	▲ 184	175	---
Magnesium	ppm	ASTM D5185m	50	▲ 374	296	---
Calcium	ppm	ASTM D5185m	50	▲ 1023	881	---
Zinc	ppm	ASTM D5185m	100	▲ 627	534	---
Water	%	ASTM D6304	>0.2	▲ 0.580	▲ 0.249	---
ppm Water	ppm	ASTM D6304	>2000	▲ 5800	▲ 2490	---
Visc @ 40°C	cSt	ASTM D445	680	▲ 110	109	---

Customer Id: CALSHR
Sample No.: RP0034845
Lab Number: 05904438
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

05 Apr 2023 Diag: Doug Bogart

WATER



We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. Free water present. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.

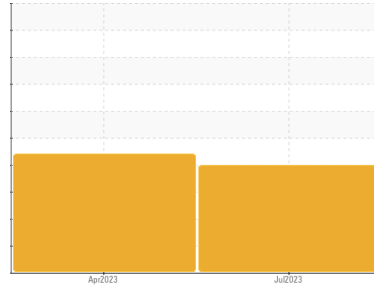
view report



OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
MEK
Machine Id
[MEK] A-Filter
Component
Gearbox
Fluid
GEAR OIL ISO 680 (4 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			RP0034845	RP0031620	---
Sample Date	Client Info			19 Jul 2023	05 Apr 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Not Chngd	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	37	39	---
Chromium	ppm	ASTM D5185m	>15	<1	0	---
Nickel	ppm	ASTM D5185m	>15	1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	0	---
Lead	ppm	ASTM D5185m	>100	4	6	---
Copper	ppm	ASTM D5185m	>200	41	57	---
Tin	ppm	ASTM D5185m	>25	1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

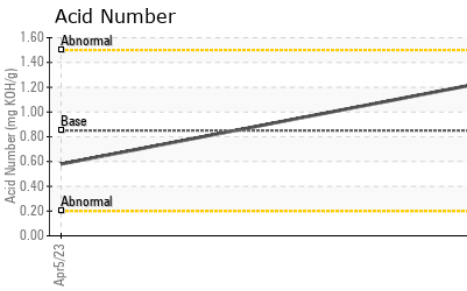
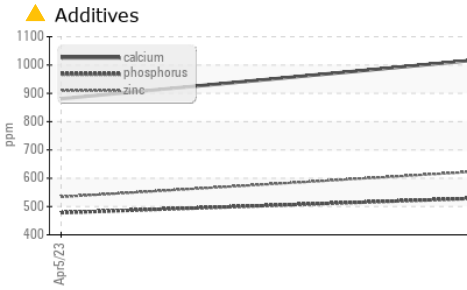
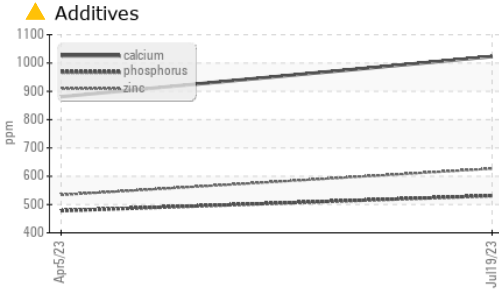
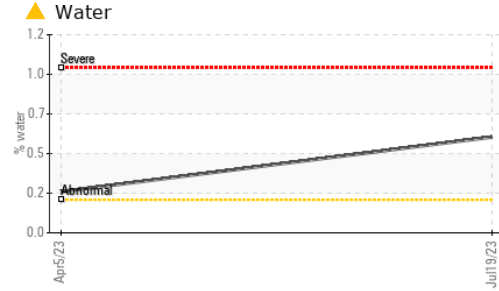
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	▲ 103	89	---
Barium	ppm	ASTM D5185m	15	0	0	---
Molybdenum	ppm	ASTM D5185m	15	▲ 184	175	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	50	▲ 374	296	---
Calcium	ppm	ASTM D5185m	50	▲ 1023	881	---
Phosphorus	ppm	ASTM D5185m	350	531	478	---
Zinc	ppm	ASTM D5185m	100	▲ 627	534	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	7	---
Sodium	ppm	ASTM D5185m		<1	0	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Water	%	ASTM D6304	>0.2	▲ 0.580	▲ 0.249	---
ppm Water	ppm	ASTM D6304	>2000	▲ 5800	▲ 2490	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.25	0.58	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	▲ MODER	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	---
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		---

OIL ANALYSIS REPORT



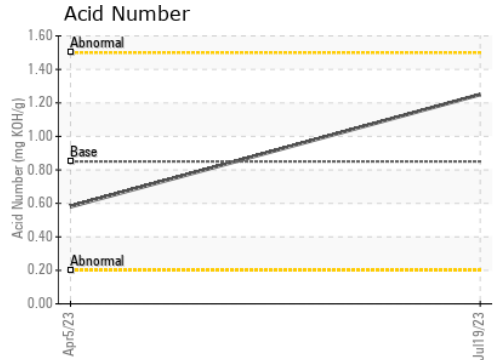
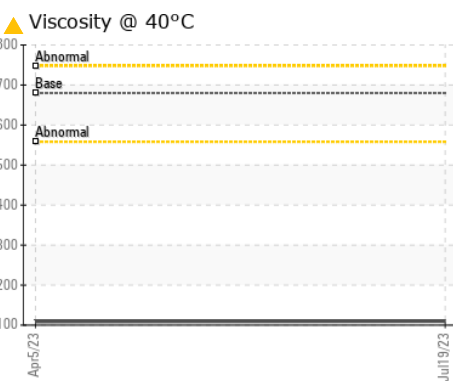
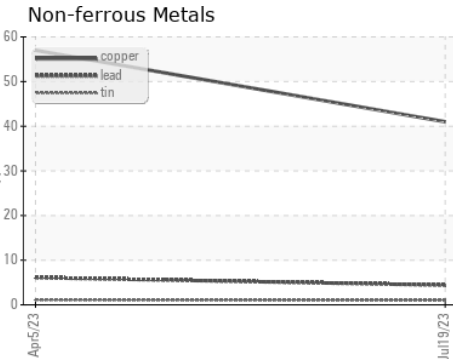
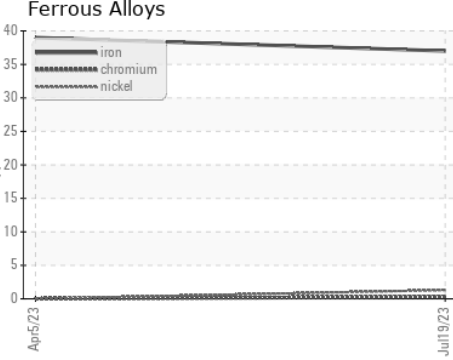
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	680	▲ 110	109	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color

Bottom

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0034845 **Received** : 21 Jul 2023
Lab Number : 05904438 **Diagnosed** : 01 Aug 2023
Unique Number : 10565794 **Diagnostician** : Doug Bogart
Test Package : IND 2

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Certificate L2367
 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)