



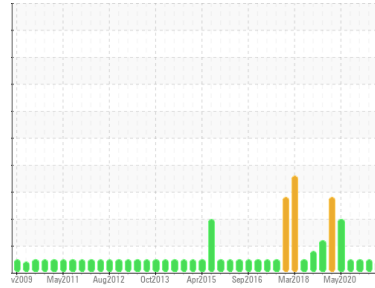
PROBLEM SUMMARY

Sample Rating Trend

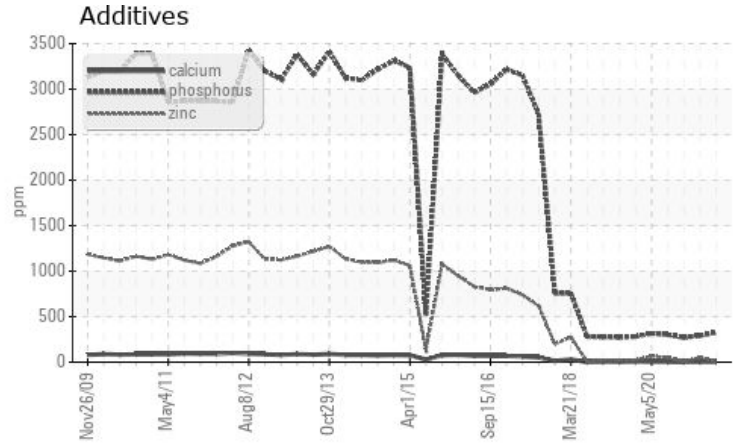
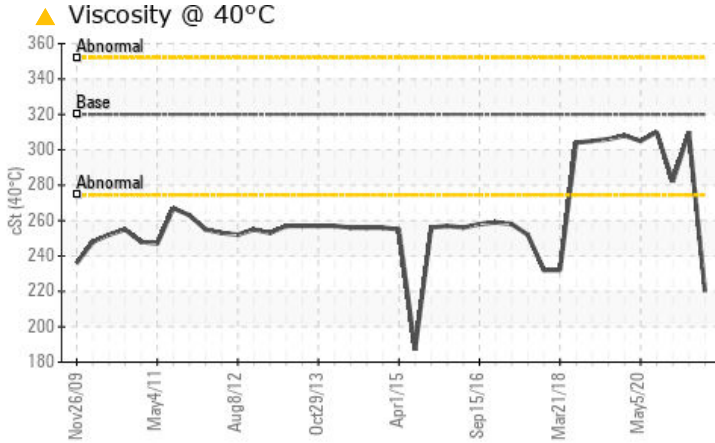
VISCOSITY

Area
TC02
Machine Id
TC02 8 Inch

Component
Gearbox
Fluid
TRIBOL GEAROIL 1100/320 (140 LTR)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as TRIBOL GEAROIL 1100/320, however, a fluid match indicates that this fluid is ISO 220 Gear Oil. Please confirm the oil type and grade on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	NORMAL	NORMAL
Visc @ 40°C	cSt	▲ 220	310	282

Customer Id: GOONAP
Sample No.: WC
Lab Number: 02579788
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:
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gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Alert	---	---	?	The fluid was specified as TRIBOL GEAROIL 1100/320, however, a fluid match indicates that this fluid is ISO 220 Gear Oil. Please confirm the oil type and grade on your next sample.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

27 Oct 2022 Diag: Kevin Marson

NORMAL



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



05 Nov 2020 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



03 Aug 2020 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

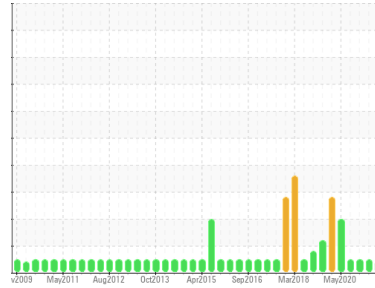
view report





OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
TC02
Machine Id
TC02 8 Inch
Component
Gearbox
Fluid
TRIBOL GEAROIL 1100/320 (140 LTR)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as TRIBOL GEAROIL 1100/320, however, a fluid match indicates that this fluid is ISO 220 Gear Oil. Please confirm the oil type and grade on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC	WC0664099	WC
Sample Date	Client Info		25 Aug 2023	27 Oct 2022	05 Nov 2020
Machine Age	Client Info		0	0	0
Oil Age	Client Info		0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	0
Iron	ppm ASTM D5185(m)	>200	4	59	5
Chromium	ppm ASTM D5185(m)	>15	0	0	0
Nickel	ppm ASTM D5185(m)	>15	<1	1	<1
Titanium	ppm ASTM D5185(m)		0	0	0
Silver	ppm ASTM D5185(m)		0	0	<1
Aluminum	ppm ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm ASTM D5185(m)	>100	0	<1	0
Copper	ppm ASTM D5185(m)	>200	<1	1	<1
Tin	ppm ASTM D5185(m)	>25	0	0	0
Antimony	ppm ASTM D5185(m)	>5	0	0	0
Vanadium	ppm ASTM D5185(m)		0	0	0
Beryllium	ppm ASTM D5185(m)		0	0	0
Cadmium	ppm ASTM D5185(m)		0	0	0

ADDITIVES

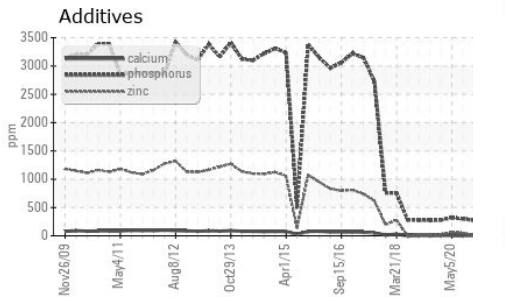
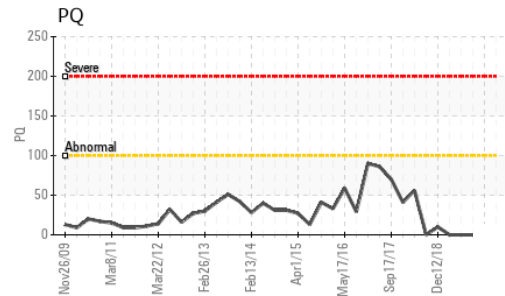
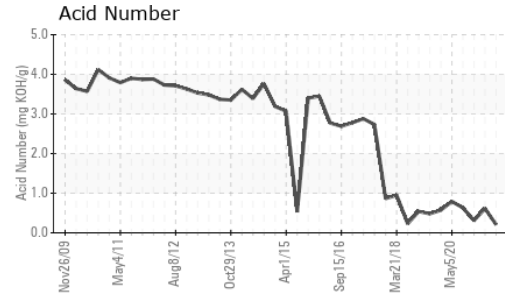
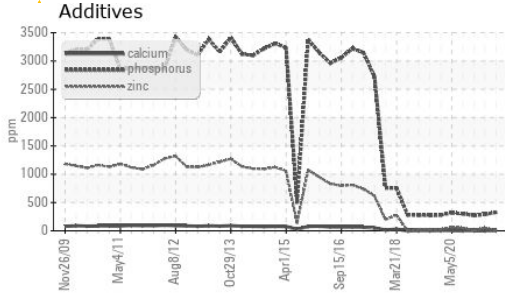
	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		<1	1	<1
Barium	ppm ASTM D5185(m)		0	0	<1
Molybdenum	ppm ASTM D5185(m)		6	65	6
Manganese	ppm ASTM D5185(m)		0	<1	<1
Magnesium	ppm ASTM D5185(m)		0	0	0
Calcium	ppm ASTM D5185(m)		<1	1	1
Phosphorus	ppm ASTM D5185(m)		327	292	270
Zinc	ppm ASTM D5185(m)		7	51	7
Sulfur	ppm ASTM D5185(m)		9353	8468	9880
Lithium	ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>50	5	11	4
Sodium	ppm ASTM D5185(m)		0	<1	<1
Potassium	ppm ASTM D5185(m)	>20	0	0	<1

FLUID DEGRADATION

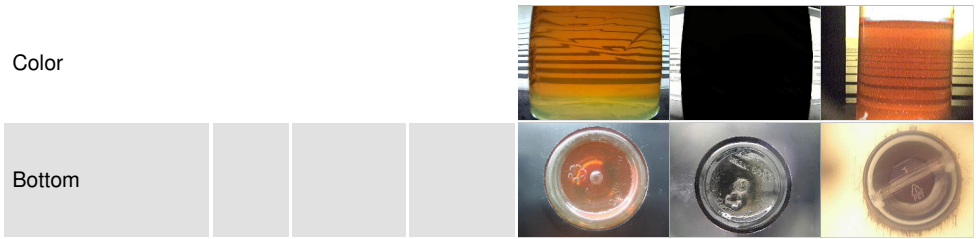
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*		0.21	0.61	0.31



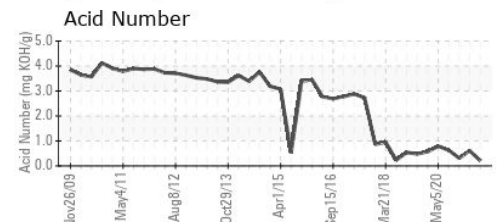
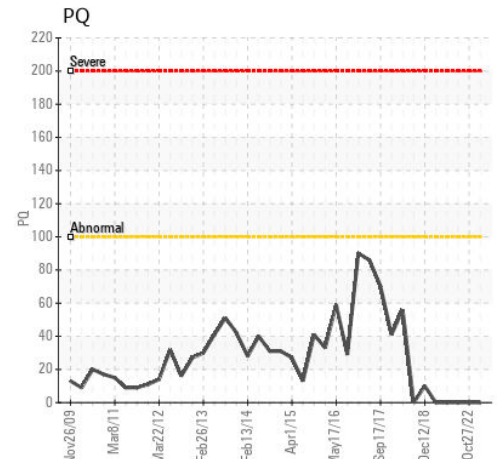
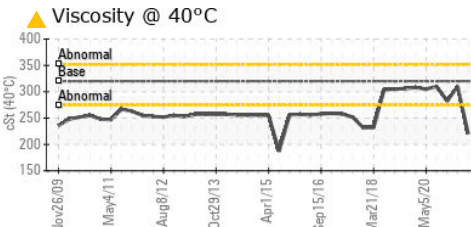
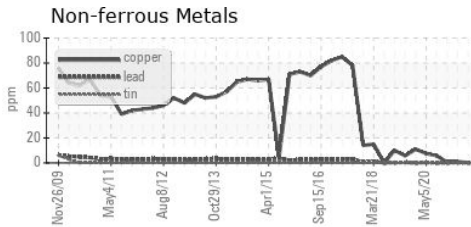
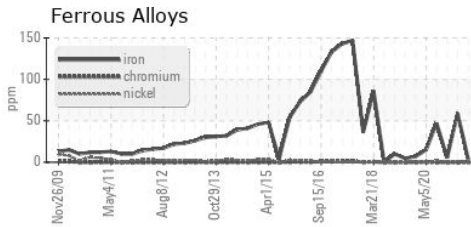
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	320 ▲ 220	310	282

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02579788
Unique Number : 5632848
Test Package : IND 2
Received : 31 Aug 2023
Diagnosed : 01 Sep 2023
Diagnostician : Kevin Marson

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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.