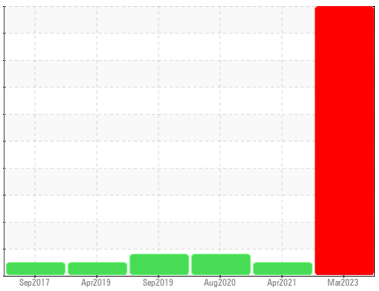
PROBLEM SUMMARY

Area
ContiTech USA_Lincoln
Machine Id
#3 Calender Bearing Oil
Component
Circulating System
Fluid
NOCOLUB-MOBILGEAR 600 XP 460 (--- GAL)

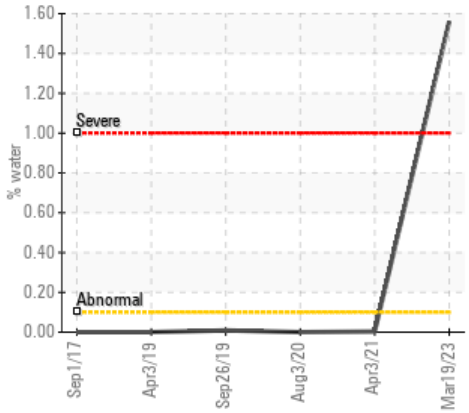
Sample Rating Trend



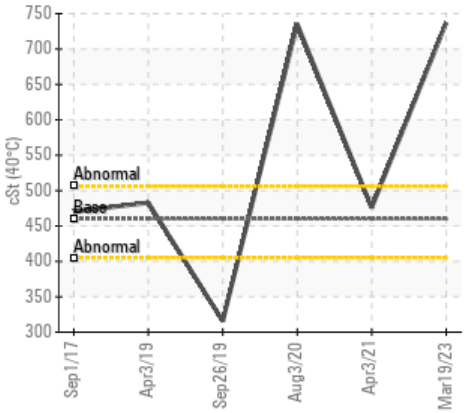
WATER

COMPONENT CONDITION SUMMARY

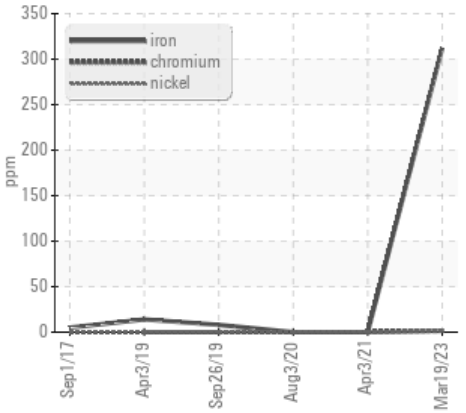
Water



Viscosity @ 40°C



Ferrous Alloys



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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	SEVERE
Iron	ppm	ASTM D5185m		▲ **312**	0	0
Water	%	ASTM D6304		⬢ **1.56**	0.003	0
ppm Water	ppm	ASTM D6304		⬢ **15600**	---	---
White Metal	scalar	*Visual	NONE	▲ **HEAVY**	---	---
Debris	scalar	*Visual	NONE	▲ **MODER**	---	---
Appearance	scalar	*Visual	NORML	▲ **MILKY**	---	---
Free Water	scalar	*Visual		⬢ **10.0**	---	---
Visc @ 40°C	cSt	ASTM D445	460	▲ **737**	476	⬢ 735.4

Customer Id: CON4021LIN
Sample No.: SBP0000556
Lab Number: 05801629
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to metal particles present in this sample.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

03 Apr 2021 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

03 Aug 2020 Diag: Wes Davis

VISCOSITY

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 680 range, advise investigate. The condition of the oil is acceptable for the time in service.

view report

26 Sep 2019 Diag: Wes Davis

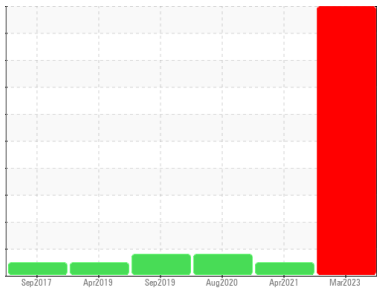
VISCOSITY

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
ContiTech USA_Lincoln
Machine Id
#3 Calender Bearing Oil
Component
Circulating System
Fluid
NOCOLUB-MOBILGEAR 600 XP 460 (--- GAL)

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.

Wear
An increase in the iron level is noted. High concentration of visible metal present.

Contamination
Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. Excessive free water present.

Fluid Condition
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**SBP0000556**	SBP16229067	SBP16487032
Sample Date		Client Info		**19 Mar 2023**	03 Apr 2021	03 Aug 2020
Machine Age	hrs	Client Info		**27727**	0	0
Oil Age	hrs	Client Info		**27727**	0	0
Oil Changed		Client Info		**N/A**	Not Changd	N/A
Sample Status				**SEVERE**	NORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**1125**	3	---
Iron	ppm	ASTM D5185m		▲ **312**	0	0
Chromium	ppm	ASTM D5185m		**2**	0	0
Nickel	ppm	ASTM D5185m		**2**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m		**4**	0	0
Lead	ppm	ASTM D5185m		**1**	0	0
Copper	ppm	ASTM D5185m		**8**	0	0
Tin	ppm	ASTM D5185m		**<1**	1	1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**4**	23	4
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**1**	0	0
Manganese	ppm	ASTM D5185m		**3**	0	0
Magnesium	ppm	ASTM D5185m		**10**	0	0
Calcium	ppm	ASTM D5185m		**45**	1	1
Phosphorus	ppm	ASTM D5185m		**190**	247	156
Zinc	ppm	ASTM D5185m		**10**	4	0
Sulfur	ppm	ASTM D5185m		**7579**	---	---

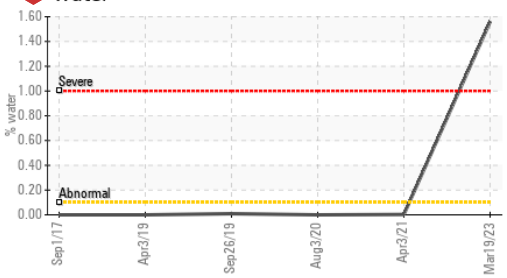
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**26**	1	1
Sodium	ppm	ASTM D5185m		**30**	1	0
Potassium	ppm	ASTM D5185m	>20	**4**	1	0
Chlorine	ppm	ASTM D5185m		**---**	0	0
Water	%	ASTM D6304		● **1.56**	0.003	0
ppm Water	ppm	ASTM D6304		● **15600**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**---**	2903	---
Particles >6µm		ASTM D7647	>1300	**---**	529	---
Particles >14µm		ASTM D7647	>160	**---**	28	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**---**	19/16/12	---

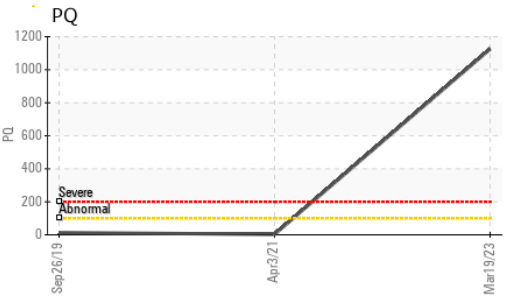
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.64**	---	---

OIL ANALYSIS REPORT

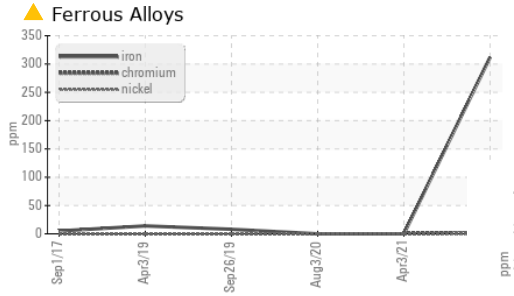
Water



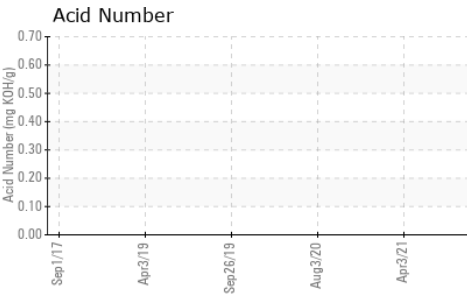
PQ



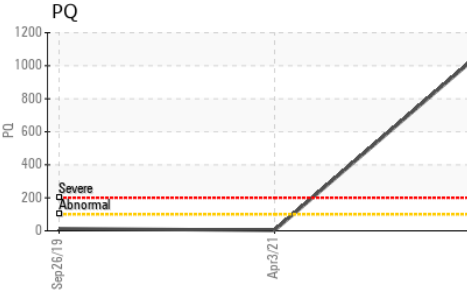
Ferrous Alloys



Acid Number

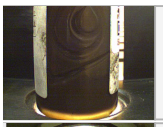
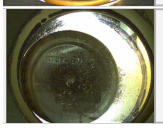


PQ



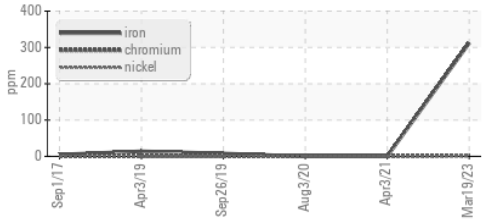
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ HEAVY	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	▲ MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual		NEG	---	---
Free Water	scalar	*Visual		⬢ 10.0	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	▲ 737	476	⬢ 735.4

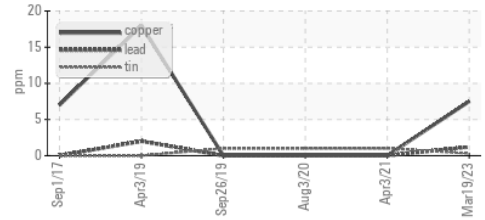
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS

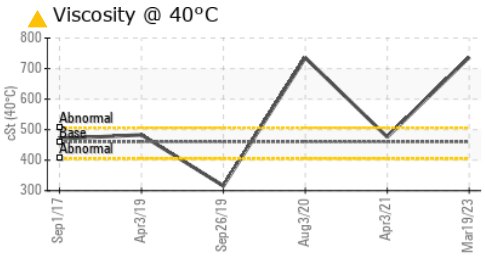
Ferrous Alloys



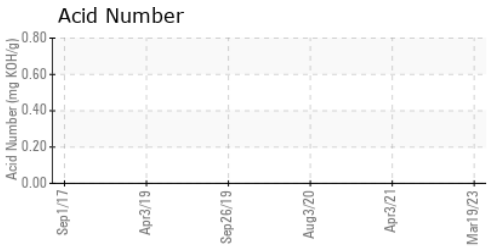
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0000556
Lab Number : 05801629
Unique Number : 10391313
Test Package : PLANT

Received : 24 Mar 2023
Diagnosed : 29 Mar 2023
Diagnostician : Don Baldridge

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)

ContiTech USA Lincoln - 713784
4021 N 56th St.
Lincoln, NE
US 68504
Contact: Jeff Hartman
jeff.hartman@continental.com
T: (402)580-7630
F: