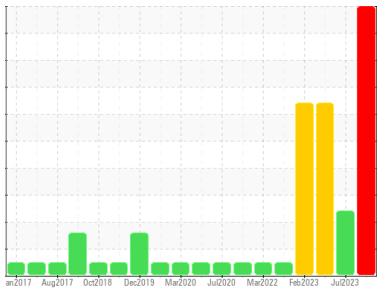
PROBLEM SUMMARY

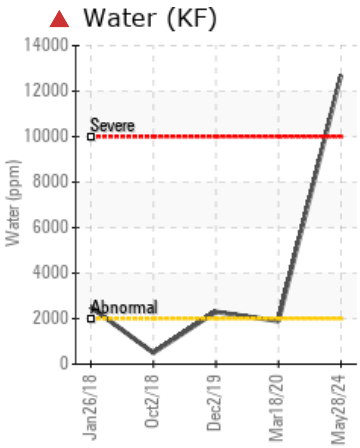
Sample Rating Trend

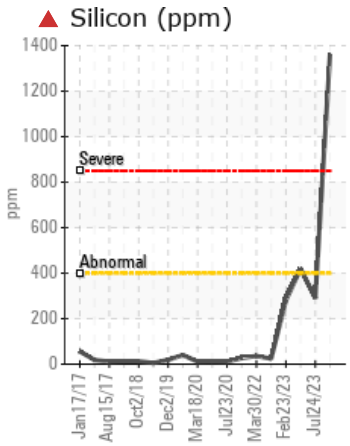


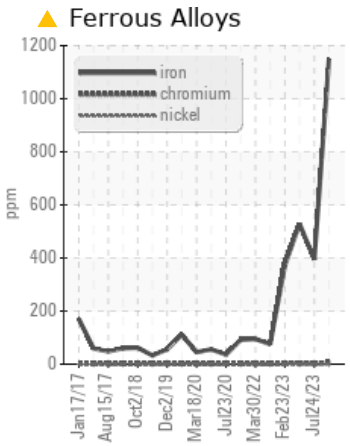
DIRT

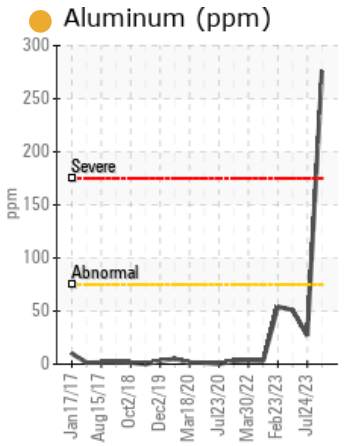
Machine Id
CATERPILLAR 326 F LR 8342 (S/N WGL00821)
Component
Right Final Drive
Fluid
TDTO FLUID SAE 30 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>800	▲ **1149**	395	▲ 529
Silicon	ppm	ASTM D5185m	>400	▲ **1361**	▲ 290	▲ 419
Water	%	ASTM D6304	>0.2	▲ **1.27**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **12700**	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ **0.2%**	NEG	NEG

Customer Id: TRANEW
Sample No.: WC0913270
Lab Number: 06197117
Test Package: CONST

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
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

DIRT

24 Jul 2023 Diag: Sean Felton
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

view report

DIRT

08 May 2023 Diag: Don Baldridge
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Gear wear is indicated. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

view report

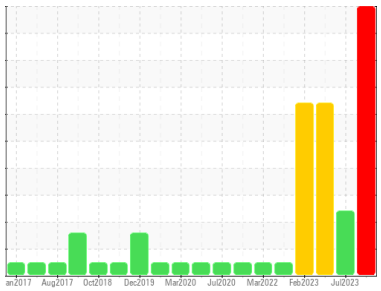
DIRT

23 Feb 2023 Diag: Don Baldridge
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.An increase in the iron level is noted. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
CATERPILLAR 326 F LR 8342 (S/N WGL00821)
Component
Right Final Drive
Fluid
TDTO FLUID SAE 30 (--- GAL)

DIAGNOSIS

▲ Recommendation
We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear
Gear wear is indicated.

▲ Contamination
There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0913270**	WC0831255	WC0790922
Sample Date		Client Info		**28 May 2024**	24 Jul 2023	08 May 2023
Machine Age	hrs	Client Info		**9003**	8492	7865
Oil Age	hrs	Client Info		**511**	627	440
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	▲ **1149**	395	▲ 529
Chromium	ppm	ASTM D5185m	>10	**7**	2	3
Nickel	ppm	ASTM D5185m	>5	**0**	0	<1
Titanium	ppm	ASTM D5185m	>15	**26**	4	6
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>75	● **276**	● 27	● 51
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>75	**<1**	<1	0
Tin	ppm	ASTM D5185m	>8	**<1**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	0

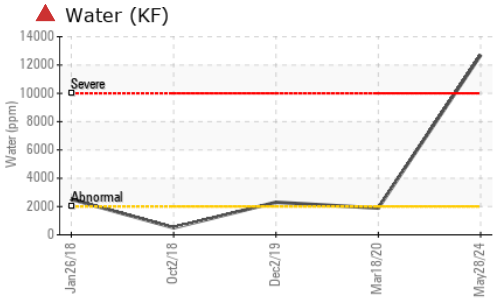
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	**129**	155	44
Barium	ppm	ASTM D5185m	7	**0**	0	0
Molybdenum	ppm	ASTM D5185m	5	**0**	<1	<1
Manganese	ppm	ASTM D5185m		**11**	4	5
Magnesium	ppm	ASTM D5185m	40	**33**	10	12
Calcium	ppm	ASTM D5185m	2650	**576**	650	2904
Phosphorus	ppm	ASTM D5185m	1050	**446**	452	775
Zinc	ppm	ASTM D5185m	1075	**38**	176	766
Sulfur	ppm	ASTM D5185m	5750	**1980**	2376	3226

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	▲ **1361**	▲ 290	▲ 419
Sodium	ppm	ASTM D5185m		**32**	6	2
Potassium	ppm	ASTM D5185m	>20	**55**	11	13
Water	%	ASTM D6304	>0.2	▲ **1.27**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **12700**	---	---

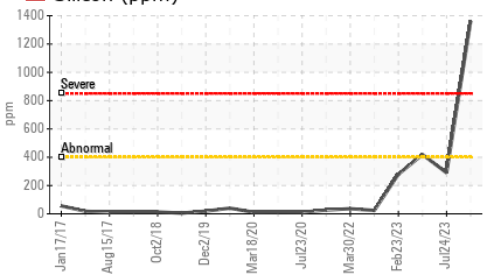
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**MODER**	MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

OIL ANALYSIS REPORT

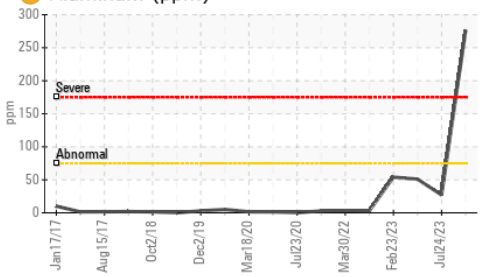
Water (KF)



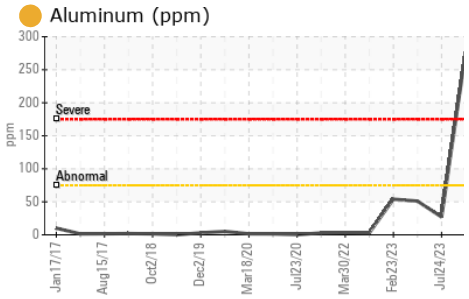
Silicon (ppm)



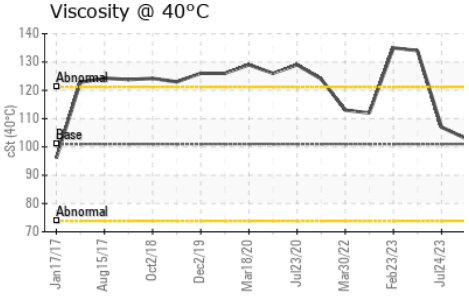
Aluminum (ppm)



Aluminum (ppm)



Viscosity @ 40°C

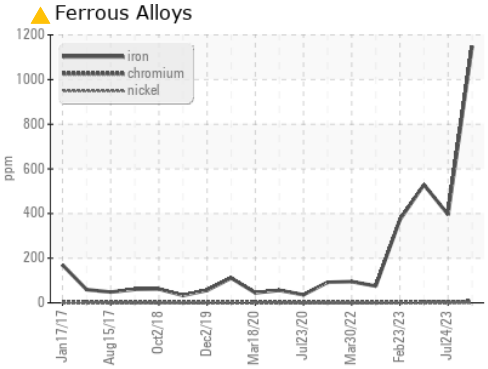


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	101	**103**	107	134

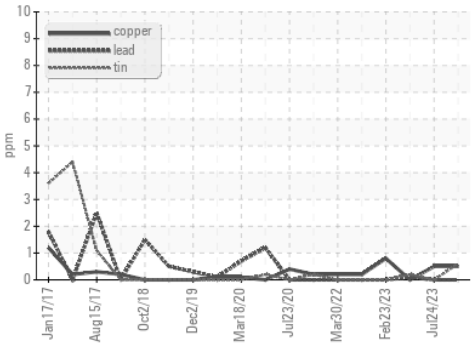
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

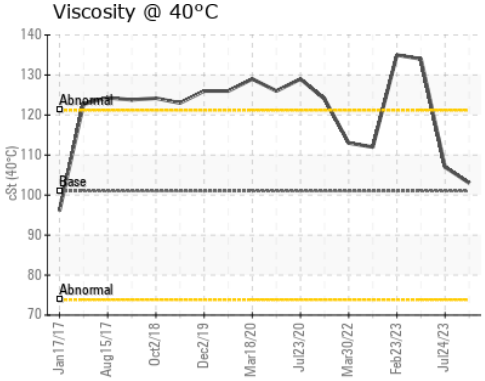
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0913270 **Received** : 31 May 2024
Lab Number : 06197117 **Tested** : 03 Jun 2024
Unique Number : 11059240 **Diagnosed** : 04 Jun 2024 - Don Baldridge
Test Package : CONST (Additional Tests: KF)

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)

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