

PROBLEM SUMMARY

Sample Rating Trend

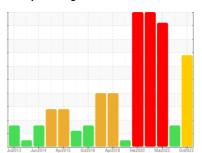
WEAR



CATERPILLAR 308E 8378 (S/N GBJ00563)

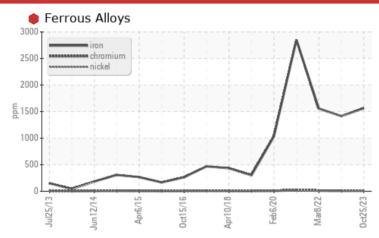
Right Final Drive

TDTO FLUID SAE 30 (--- GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL	SEVERE			
Iron	ppm	ASTM D5185m	>800	1564	<u> </u>	1557			
Chromium	ppm	ASTM D5185m	>10	<u> </u>	1 0	1 3			

Customer Id: TRANEW Sample No.: WC0862933 Lab Number: 05994641 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
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

02 Mar 2023 Diag: Don Baldridge

WEAR



The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level has decreased, but is still abnormal. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



08 Mar 2022 Diag: Don Baldridge

WEAR



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. The iron level has decreased, but is still abnormal. Gear wear is indicated. 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

02 Mar 2021 Diag: Jonathan Hester

WEAR



We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT

Sample Rating Trend



CATERPILLAR 308E 8378 (S/N GBJ00563)

Right Final Drive

TDTO FLUID SAE 30 (--

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The iron level is severe. Gear wear is indicated.

Contamination

There is no indication of any contamination in the

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

GAL)		Jul2013 Jun	2014 Apr2015 Oct201	6 Apr2018 Feb2020 Mar20	72 Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0862933	WC0776008	WC0674152
Sample Date		Client Info		25 Oct 2023	02 Mar 2023	08 Mar 2022
Machine Age	hrs	Client Info		7955	7497	7038
Oil Age	hrs	Client Info		458	459	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	1564	<u> </u>	1557
Chromium	ppm	ASTM D5185m	>10	<u> 11</u>	<u> </u>	<u>▲</u> 13
Nickel	ppm	ASTM D5185m	>5	3	2	4
Titanium	ppm	ASTM D5185m	>15	1	1	3
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>75	18	11	▲ 33
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	3	2	2
Tin	ppm	ASTM D5185m	>8	0	0	<1
Antimony	ppm	ASTM D5185m	>50			
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	230	169	208
Barium	ppm	ASTM D5185m	7	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	1
Manganese	ppm	ASTM D5185m		9	9	11
Magnesium	ppm	ASTM D5185m	40	16	3	3
Calcium	ppm	ASTM D5185m	2650	35	50	53
Phosphorus	ppm	ASTM D5185m	1050	1083	747	1504
Zinc	ppm	ASTM D5185m	1075	19	0	18
Sulfur	ppm	ASTM D5185m	5750	17293	8500	21627
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>400	84	71	<u>▲</u> 178
Sodium	ppm	ASTM D5185m		4	<1	1
Potassium	ppm	ASTM D5185m		5	3	7
Water	%	ASTM D6304	>0.2	0.160		
ppm Water	ppm	ASTM D6304	>2000	1600		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
Free Water 9:33:13) Rev: 1	scalar	*Visual		NEG Contact/Loc	NEG ation: MIKF WY	NEG ATT - TRANEW
7.00.10) 11 0 4. 1				OUTRACT LOC	audii. Will\L VV I	CTT = TITAINEVV



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

: 05994641 : 10723001 Test Package : CONST (Additional Tests: KF)

: WC0862933

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 Oct 2023 Diagnosed : 01 Nov 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)

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Report Id: TRANEW [WUSCAR] 05994641 (Generated: 11/01/2023 19:33:13) Rev: 1

Contact/Location: MIKE WYATT - TRANEW