

PROBLEM SUMMARY

Sample Rating Trend

DIRT

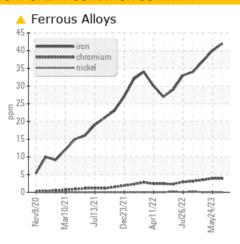
DIN

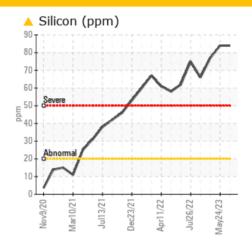
CATERPILLAR D6 8178 (S/N KEW00465)

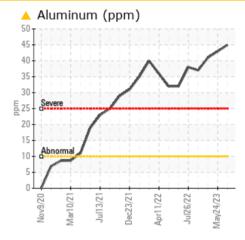
Hydraulic System

NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>20	42	<u>4</u> 0	△ 37		
Aluminum	ppm	ASTM D5185m	>10	45	4 3	<u>41</u>		
Silicon	mag	ASTM D5185m	>20	<u> 84</u>	A 84	△ 77		

Customer Id: TRANEW Sample No.: WC0837165 Lab Number: 05932068 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
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

24 May 2023 Diag: Jonathan Hester



We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



02 Feb 2023 Diag: Jonathan Hester



We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



09 Nov 2022 Diag: Don Baldridge





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OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id

CATERPILLAR D6 8178 (S/N KEW00465)

Componen

Hydraulic System

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

	v2020	Mar2021	Jul2021	Dec2021	Apr2022	Jul2022	May2023
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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837165	WC0816168	WC0775947
Sample Date		Client Info		15 Aug 2023	24 May 2023	02 Feb 2023
Machine Age	hrs	Client Info		11325	10892	10319
Oil Age	hrs	Client Info		11325	10892	10319
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	42	4 0	▲ 37
Chromium	ppm	ASTM D5185m	>10	4	4	4
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		2	2	2
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	45	4 3	<u></u> 41
Lead	ppm	ASTM D5185m	>10	2	<1	1
Copper	ppm	ASTM D5185m	>75	17	16	17
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		58	62	55
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		38	40	32
Calcium	ppm	ASTM D5185m		2010	2124	1888
Phosphorus	ppm	ASTM D5185m		865	945	828
Zinc	ppm	ASTM D5185m		1131	1198	1066
Sulfur	ppm	ASTM D5185m		2843	3084	2738
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<u>^</u> 84	<u></u> 84	▲ 77
Sodium	ppm	ASTM D5185m		7	8	7
Potassium	ppm	ASTM D5185m	>20	6	6	5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1230	914	2061
Particles >6µm		ASTM D7647	>1300	396	107	290
Particles >14µm		ASTM D7647	>160	73	7	14
Particles >21µm		ASTM D7647	>40	34	2	5
Particles >38µm		ASTM D7647	>10	3	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/13	17/14/10	18/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.81	0.76	0.68



OIL ANALYSIS REPORT

