

Machine Id CATERPILLAR D6 10036 (S/N KEW01123) Component Right Final Drive

{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY







DIRT

RECOMMENDATION

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	SEVERE	NORMAL			
Iron	ppm	ASTM D5185m	>800	<u> </u>	463	83			
Silicon	ppm	ASTM D5185m	>400	1280	▲ 772	97			

Sample Rating Trend

Customer Id: TRANEW Sample No.: WC0888123 Lab Number: 06122746 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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

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.			

HISTORICAL DIAGNOSIS



02 Feb 2024 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. The chromium level is abnormal. Gear wear is indicated. There is a light concentration of water present in the oil. 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.



02 Nov 2023 Diag: Jonathan Hester





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 condition of the oil is acceptable for the time in service.



21 Aug 2023 Diag: Don Baldridge

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 condition of the oil is acceptable for the time in service.







OIL ANALYSIS REPORT

Sample Rating Trend



CATERPILLAR D6 10036 (S/N KEW01123) Component Right Final Drive

SAMPLE INFORMATION method

{not provided} (--- GAL)

DIAGNOOIO

Recommendation

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

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 Number		Client Info		WC0888123	WC0888198	WC0862973
Sample Date		Client Info		08 Mar 2024	02 Feb 2024	02 Nov 2023
Machine Age	hrs	Client Info		4355	3775	3060
Oil Age	hrs	Client Info		557	684	508
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	<u> </u>	463	83
Chromium	ppm	ASTM D5185m	>10	43	4 36	8
Nickel	ppm	ASTM D5185m	>5	10	7	1
Titanium	ppm	ASTM D5185m	>15	12	8	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	<mark> </mark> 47	933	7
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	1	0	0
Tin	ppm	ASTM D5185m	>8	0	<1	0
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		122	157	198
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		17	6	1
Manganese	ppm	ASTM D5185m		9	7	1
Magnesium	ppm	ASTM D5185m		56	3	1
Calcium	ppm	ASTM D5185m		1135	100	91
Phosphorus	ppm	ASTM D5185m		573	347	350
Zinc	ppm	ASTM D5185m		391	25	21
Sulfur	ppm	ASTM D5185m		2745	2110	1962
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	1280	▲ 772	97
Sodium	ppm	ASTM D5185m		6	3	2
Potassium	ppm	ASTM D5185m	>20	21	10	3
Water	%	ASTM D6304	>0.2	0.170	0.241	
ppm Water	ppm	ASTM D6304	>2000	1700	4 2410	
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	NONE	MODER	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%	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT



Contact/Location: MIKE WYATT - TRANEW