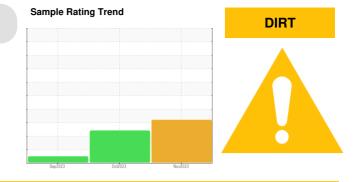
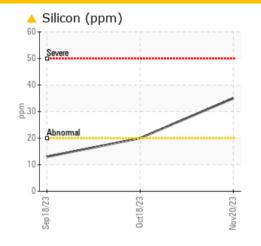


PROBLEM SUMMARY

CATERPILLAR D6 LGP 10041 (S/N KEW01161)

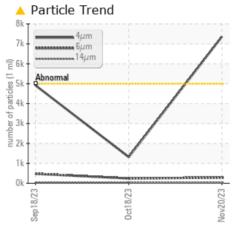


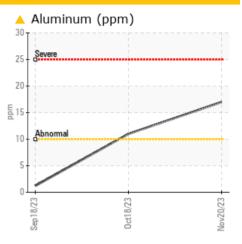
COMPONENT CONDITION SUMMARY



Component

Hydraulic System NOT GIVEN (--- GAL)





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	NORMAL		
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	🔺 11	1		
Silicon	ppm	ASTM D5185m	>20	A 35	<u> </u>	13		
Particles >4µm		ASTM D7647	>5000	<u> </u>	1319	4909		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/15/12	18/15/12	19/16/12		

Customer Id: TRANEW Sample No.: WC0879405 Lab Number: 06026343 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 ihester@wearcheckusa.com

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

18 Oct 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.All 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.



18 Sep 2023 Diag: Wes Davis

NORMAL



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. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



Machine Id CATERPILLAR D6 LGP 10041 (S/N KEW01161) Component 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

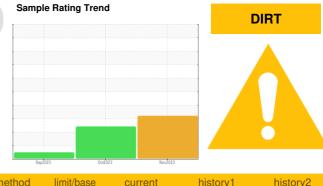
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

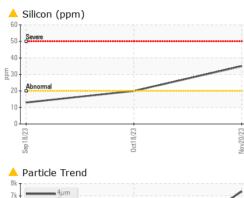


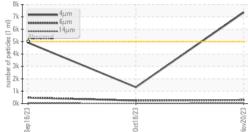
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0879405	WC0862889	WC0831336
Sample Date		Client Info		20 Nov 2023	18 Oct 2023	18 Sep 2023
Machine Age	hrs	Client Info		1659	1104	675
Oil Age	hrs	Client Info		1659	1104	675
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	19	13	10
Chromium	ppm	ASTM D5185m	>10	1	1	<1
Nickel	ppm	ASTM D5185m	>10	0	1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	 11	1
Lead	ppm	ASTM D5185m	>10	1	3	1
Copper	ppm	ASTM D5185m	>75	13	12	10
Tin	ppm	ASTM D5185m	>10	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	8	5
Calcium	ppm	ASTM D5185m		378	201	173
Phosphorus	ppm	ASTM D5185m		681	745	653
Zinc	ppm	ASTM D5185m		859	1021	879
Sulfur	ppm	ASTM D5185m		1749	1906	1689
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<u> </u>	a 20	13
Sodium	ppm	ASTM D5185m		2	2	1
Potassium	ppm	ASTM D5185m	>20	2	3	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 7359	1319	4909
Particles >6µm		ASTM D7647	>1300	284	242	478
Particles >14µm		ASTM D7647	>160	26	21	26
Particles >21µm		ASTM D7647		9	5	8
Particles >38µm		ASTM D7647	>10	2	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 20/15/12	18/15/12	19/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.71	0.98	1.14

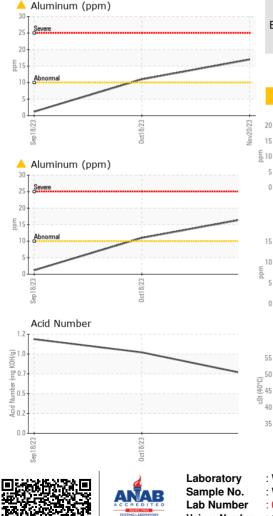
Contact/Location: MIKE WYATT - TRANEW



OIL ANALYSIS REPORT

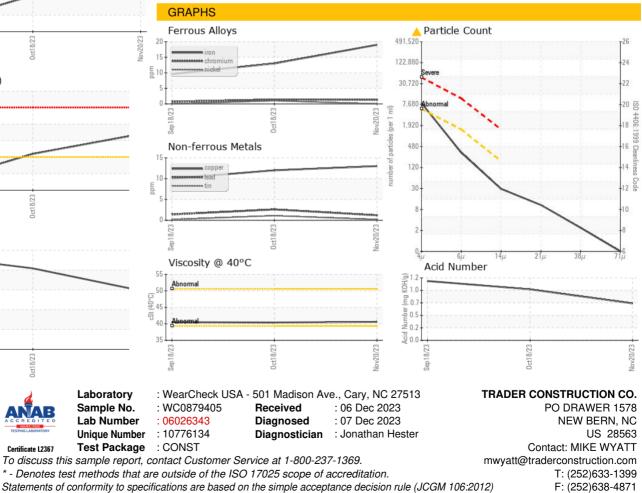






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	FIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		40.6	40.4	40.5
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						

Bottom



Contact/Location: MIKE WYATT - TRANEW