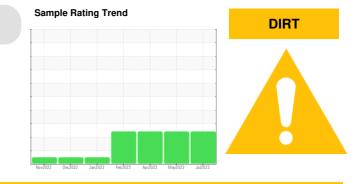


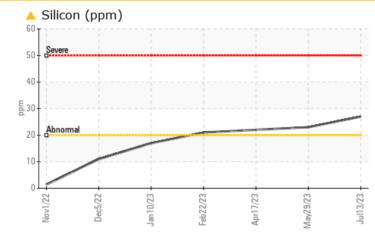
PROBLEM SUMMARY

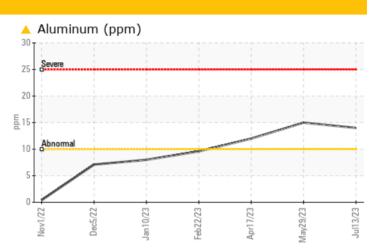


Machine Id **CATERPILLAR D6 10033 (S/N KEW01101)** Component Hydraulic System Fluid NOT GIVEN (--- GAL)



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	
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	1 5	1 2	
Silicon	ppm	ASTM D5185m	>20	<u> </u>	A 23	<u> </u>	

Customer Id: TRANEW Sample No.: WC0816196 Lab Number: 05905390 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

29 May 2023 Diag: Don Baldridge



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.



view report

17 Apr 2023 Diag: Don Baldridge

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.



22 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.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.





OIL ANALYSIS REPORT



Machine Id CATERPILLAR D6 10033 (S/N KEW01101) 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

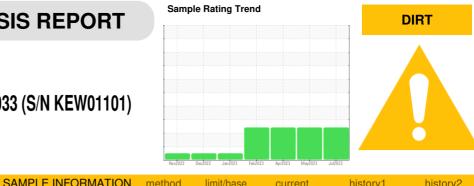
All component wear rates are normal.

Contamination

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

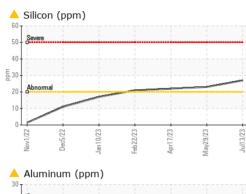
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

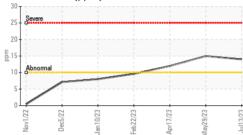


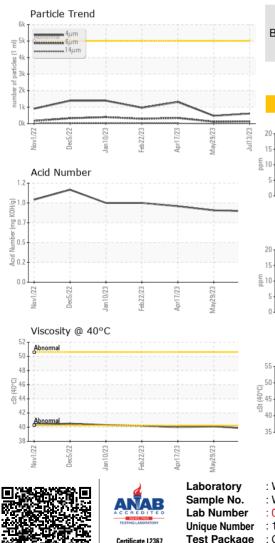
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0816196	WC0816183	WC0797656
Sample Date		Client Info		13 Jul 2023	29 May 2023	17 Apr 2023
Machine Age	hrs	Client Info		3772	3278	2716
Oil Age	hrs	Client Info		3772	3278	2716
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	18	14	15
Chromium	ppm	ASTM D5185m		1	1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m		<u> </u>	<u> </u>	<u> </u>
Lead	ppm	ASTM D5185m	>10	2	3	0
Copper	ppm	ASTM D5185m	>75	16	12	13
Tin	ppm	ASTM D5185m	>10	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	7	5
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		11	12	10
Calcium	ppm	ASTM D5185m		480	417	340
Phosphorus	ppm	ASTM D5185m		730	744	685
Zinc	ppm	ASTM D5185m		960	1006	886
Sulfur	ppm	ASTM D5185m		2018	1773	1772
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	A 27	4 23	A 22
Sodium	ppm	ASTM D5185m		0	3	1
Potassium	ppm	ASTM D5185m	>20	3	4	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	607	475	1311
Particles >6µm		ASTM D7647		138	118	343
Particles >14µm		ASTM D7647	>160	16	8	18
Particles >21µm		ASTM D7647		5	2	5
Particles >38µm		ASTM D7647		1	0	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11	16/14/10	18/16/11
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	-init/base	0.86	0.87	0.92
ACIO MULLIDEL (AN)	iiiy NOA/g	ASTIVI D0045		0.00	0.07	0.92



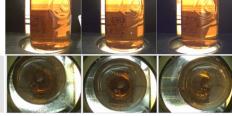
OIL ANALYSIS REPORT







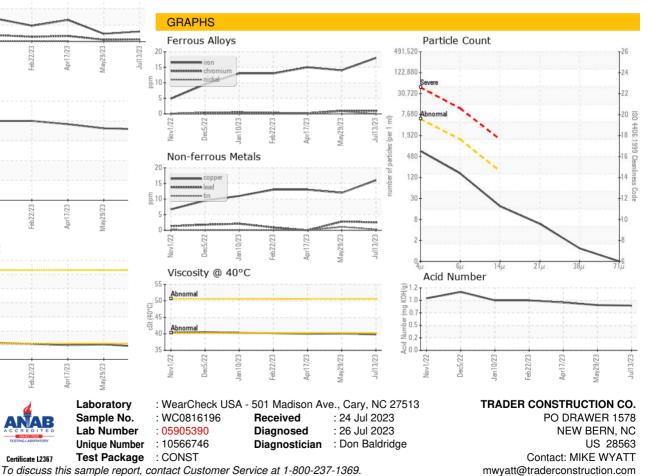
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		39.8	40.1	40.0
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						



Bottom

* - 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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