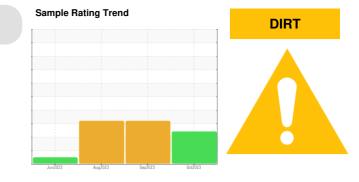


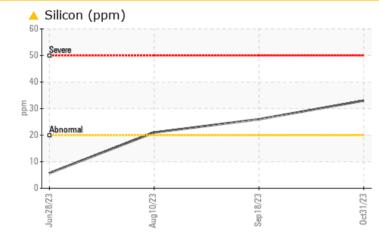
PROBLEM SUMMARY

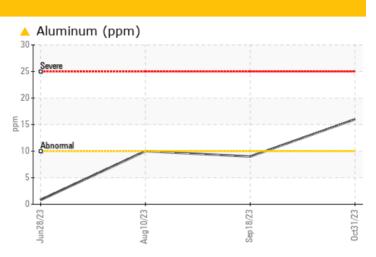


Machine Id CATERPILLAR D6 LGP 10039 (S/N KEW01125) Component Hydraulic System Fluid NOT GIVEN (--- GAL)



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>	<u> </u>	<u> </u>	
Silicon	ppm	ASTM D5185m	>20	A 33	<u> </u>	<u> </u>	

Customer Id: TRANEW Sample No.: WC0862963 Lab Number: 06001535 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 jhester@wearcheckusa.com

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		
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.		

HISTORICAL DIAGNOSIS

18 Sep 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. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

10 Aug 2023 Diag: Jonathan Hester



We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



28 Jun 2023 Diag: Wes Davis

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 Ic CATERPILLAR D6 LGP 10039 (S/N KEW01125) Component **Hydraulic System**

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

WEAR METALS

Oil Age

Iron

Nickel

Silver

Lead

Tin

Copper

Titanium

Aluminum

Chromium

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.

A Wear

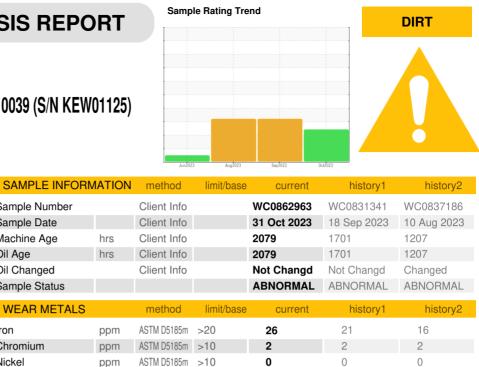
All component wear rates are normal.

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.



<1

0

16

2

18

0

<1

0

9

2

16

<1

<1

0

10

2

15

<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		2	0	2
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		9	6	4
Calcium	ppm	ASTM D5185m		313	173	177
Phosphorus	ppm	ASTM D5185m		704	673	712
Zinc	ppm	ASTM D5185m		967	904	932
Sulfur	ppm	ASTM D5185m		1951	1739	1956
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	A 33	A 26	2 1
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	3	<1	2
FLUID CLEANLINESS		method	limit/base	current	history1	history2

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m >10

ASTM D5185m >75

>10

>10

ppm

ppm

ppm

ppm

ppm

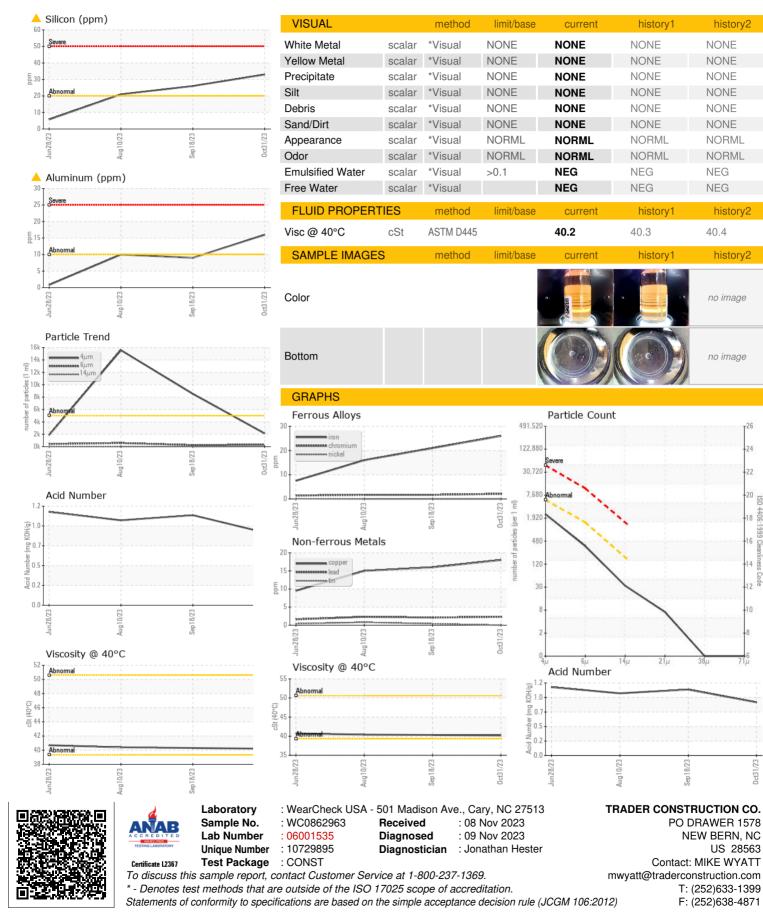
ppm

	method	in the base	ourrent	motory	Thotory 2
Particles >4µm	ASTM D7647	>5000	2126	▲ 8511	1 5568
Particles >6µm	ASTM D7647	>1300	313	254	586
Particles >14µm	ASTM D7647	>160	29	14	7
Particles >21µm	ASTM D7647	>40	6	4	2
Particles >38µm	ASTM D7647	>10	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/15/12	▲ 20/15/11	2 1/16/10
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045		0.88	1.09	1.028

Report Id: TRANEW [WUSCAR] 06001535 (Generated: 11/16/2023 00:22:20) Rev: 1



OIL ANALYSIS REPORT



Contact/Location: MIKE WYATT - TRANEW

4406

:1999 Cle

14