

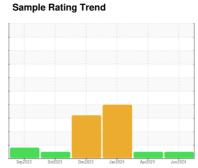
# **OIL ANALYSIS REPORT**



CATERPILLAR D6 LGP 10040 (S/N KEW01159)

Hydraulic System
Fluid

{not provided} (--- GAL)





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

## Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

## **Fluid Condition**

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

		Sep 2023	Oct2023 Dec2023	Jan 2024 Apr 2024	Jun 2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888097	WC0888010	WC0888000
Sample Date		Client Info		04 Jun 2024	10 Apr 2024	22 Jan 2024
Machine Age	hrs	Client Info		3706	3050	2620
Oil Age	hrs	Client Info		3706	3050	2620
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	J	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	13	8	<b>▲</b> 31
Chromium	ppm	ASTM D5185m	>10	3	2	3
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	4	3	<b>2</b> 6
Lead	ppm	ASTM D5185m	>10	3	1	2
Copper	ppm	ASTM D5185m	>75	25	16	14
Tin	ppm	ASTM D5185m	>10	<1	0	0
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		1	0	3
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	0	0
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		<1 <1	0 <1	0
	• •					
Manganese	ppm	ASTM D5185m		<1	<1	0
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		<1 4	<1	0
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		<1 4 354	<1 0 225	0 9 309
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 4 354 725	<1 0 225 621	0 9 309 726
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 4 354 725 945	<1 0 225 621 754	0 9 309 726 923
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 4 354 725 945 2046	<1 0 225 621 754 1778	0 9 309 726 923 1947
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 4 354 725 945 2046  current	<1 0 225 621 754 1778 history1	0 9 309 726 923 1947 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20	<1 4 354 725 945 2046 current	<1 0 225 621 754 1778 history1	0 9 309 726 923 1947 history2 ▲ 50
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20	<1 4 354 725 945 2046  current 11 0	<1 0 225 621 754 1778 history1 7	0 9 309 726 923 1947 history2 ▲ 50 <1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20 >20	<1 4 354 725 945 2046 current 11 0 1	<1 0 225 621 754 1778 history1 7 3	0 9 309 726 923 1947 history2 ▲ 50 <1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLING	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20 >20 limit/base	<1 4 354 725 945 2046 current 11 0 1 current	<1 0 225 621 754 1778 history1 7 3 10	0 9 309 726 923 1947 history2 ▲ 50 <1 5
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINI Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20 >20 limit/base >5000	<1 4 354 725 945 2046 current 11 0 1 current 701	<1 0 225 621 754 1778 history1 7 3 10 history1 2850	0 9 309 726 923 1947 history2 ▲ 50 <1 5
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINI Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>20 >20 limit/base >5000 >1300	<1 4 354 725 945 2046 current 11 0 1 current 701 167	<1 0 225 621 754 1778 history1 7 3 10 history1 2850 352	0 9 309 726 923 1947 history2 ▲ 50 <1 5 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINI Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160	<1 4 354 725 945 2046  current 11 0 1  current 701 167 13	<1 0 225 621 754 1778 history1 7 3 10 history1 2850 352 30	0 9 309 726 923 1947 history2 ▲ 50 <1 5 history2 ○ 7726 207 12
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINI Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160 >40	<1 4 354 725 945 2046  current 11 0 1  current 701 167 13 3	<1 0 225 621 754 1778 history1 7 3 10 history1 2850 352 30 8	0 9 309 726 923 1947 history2 ▲ 50 <1 5 history2 7726 207 12 3
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINI Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160 >40 >10	<1 4 354 725 945 2046  current 11 0 1  current 701 167 13 3 0	<1 0 225 621 754 1778 history1 7 3 10 history1 2850 352 30 8 1	0 9 309 726 923 1947 history2  ▲ 50 <1 5 history2  ○ 7726 207 12 3 0

Acid Number (AN)

mg KOH/g ASTM D8045

0.92

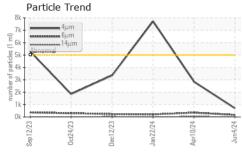
1.01

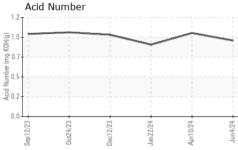
0.87

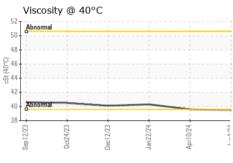
Contact/Location: MIKE WYATT - TRANEW

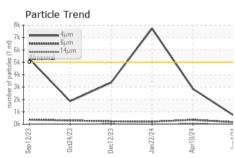


## **OIL ANALYSIS REPORT**









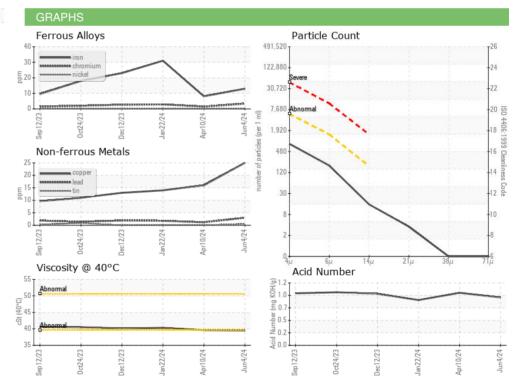
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/hasa	current	history1	history2

I LOID I HOI LIN	1120				
Visc @ 40°C	cSt	ASTM D445	39.5	39.6	40.3

SAM	PI F	<b>IMAGES</b>	
O/ tivi		IIVI/ (GEO	

Color

**Bottom** 







Certificate 12367

Laboratory Sample No.

: WC0888097 Lab Number : 06202660 Unique Number : 11070121 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 07 Jun 2024 Received

**Tested** : 10 Jun 2024 Diagnosed : 10 Jun 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 28563 Contact: MIKE WYATT mwyatt@traderconstruction.com T: (252)633-1399

TRADER CONSTRUCTION CO.

PO DRAWER 1578

NEW BERN, NC

F: (252)638-4871

\* - 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)

Report Id: TRANEW [WUSCAR] 06202660 (Generated: 06/10/2024 10:19:34) Rev: 1

Contact/Location: MIKE WYATT - TRANEW