

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **CATERPILLAR D6 LGP 10041 (S/N KEW01161)** Component **Right Final Drive** 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

There is no indication of any contamination in the oil.

#### Fluid Condition

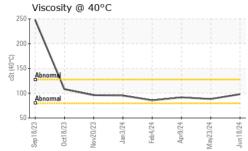
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0899068	WC0888166	WC0913255
Sample Date		Client Info		18 Jun 2024	23 May 2024	09 Apr 2024
Machine Age	hrs	Client Info		4172	5734	3152
Oil Age	hrs	Client Info		438	582	488
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	15	20	12
Chromium	ppm	ASTM D5185m	>10	0	1	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	1
Titanium	ppm	ASTM D5185m	>15	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>75	<1	<1	1
Lead	ppm	ASTM D5185m	>10	0	0	1
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>8	<1	0	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	1
ADDITIVES		method	limit/base	current	history1	history2
Boron		AOTH DELOS				100
DOIOII	ppm	ASTM D5185m		157	159	166
Barium	ppm	ASTM D5185m ASTM D5185m		157 0	159 0	0
				-		
Barium	ppm	ASTM D5185m		0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 0	0 7	0 8
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1	0 7 <1	0 8 1
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 4 145 388	0 7 <1 37	0 8 1 35
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 4 145	0 7 <1 37 772	0 8 1 35 756
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 4 145 388	0 7 <1 37 772 534	0 8 1 35 756 598
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 4 145 388 46	0 7 <1 37 772 534 269	0 8 1 35 756 598 261
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 4 145 388 46 2434	0 7 <1 37 772 534 269 2703	0 8 1 35 756 598 261 2870
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 4 145 388 46 2434 current	0 7 <1 37 772 534 269 2703 history1	0 8 1 35 756 598 261 2870 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>400	0 0 <1 4 145 388 46 2434 current 7	0 7 <1 37 772 534 269 2703 history1 9	0 8 1 35 756 598 261 2870 history2 7
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	>400	0 0 <1 4 145 388 46 2434 current 7 1	0 7 <1 37 772 534 269 2703 history1 9 2	0 8 1 35 756 598 261 2870 history2 7 <1
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>400 >20	0 0 <1 4 145 388 46 2434 <i>current</i> 7 1 3	0 7 <1 37 772 534 269 2703 history1 9 2 2 5	0 8 1 35 756 598 261 2870 history2 7 <1 5
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>400 >20 limit/base	0 0 <1 4 145 388 46 2434 <i>current</i> 7 1 3 <i>current</i>	0 7 <1 37 772 534 269 2703 history1 9 2 5 5 history1	0 8 1 35 756 598 261 2870 history2 7 <1 5 }
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>400 >20 limit/base NONE	0 0 <1 4 145 388 46 2434 <i>current</i> 7 1 3 <i>current</i> NONE	0 7 <1 37 772 534 269 2703 history1 9 2 5 5 history1 NONE	0 8 1 35 756 598 261 2870 history2 7 <1 5 5 history2 NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	>400 >20 limit/base NONE NONE	0 0 <1 4 145 388 46 2434 <i>current</i> 7 1 3 <i>current</i> NONE NONE	0 7 <1 37 772 534 269 2703 history1 9 2 5 5 history1 NONE NONE	0 8 1 35 756 598 261 2870 history2 7 <1 5 × history2 NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	>400 >20 limit/base NONE NONE NONE	0 0 <1 4 145 388 46 2434 current 7 1 3 3 current NONE NONE NONE NONE	0 7 <1 37 772 534 269 2703 history1 9 2 2 5 5 history1 NONE NONE NONE NONE	0 8 1 35 756 598 261 2870 history2 7 <1 5 5 history2 NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yuisual *Visual *Visual	>400 >20 limit/base NONE NONE NONE NONE	0 0 <1 4 145 388 46 2434 <u>current</u> 7 1 3 <u>current</u> NONE NONE NONE NONE	0 7 <1 37 772 534 269 2703 history1 9 2 5 5 history1 NONE NONE NONE NONE NONE NONE	0 8 1 35 756 598 261 2870 history2 7 <1 5 5 history2 NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>400 >20 limit/base NONE NONE NONE NONE NONE	0 0 <1 4 145 388 46 2434 <i>current</i> 7 1 3 <i>current</i> NONE NONE NONE NONE NONE NONE	0 7 <1 37 772 534 269 2703 history1 9 2 5 <u>history1</u> NONE NONE NONE NONE NONE NONE	0 8 1 35 756 598 261 2870 history2 7 <1 5 history2 NONE NONE NONE NONE NONE NONE NONE NON
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL VISUAL VHite Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 limit/base NONE NONE NONE NONE NONE	0 0 <1 4 145 388 46 2434 current 7 1 3 current NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 7 <1 37 772 534 269 2703 history1 9 2 5 history1 NONE NONE NONE NONE NONE NONE NONE NON	0 8 1 35 756 598 261 2870 history2 7 <1 5 VONE NONE NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL VHIE Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	0 0 <1 4 145 388 46 2434 current 7 1 3 current 3 NONE NONE NONE NONE NONE NONE NONE N	0 7 <1 37 772 534 269 2703 history1 9 2 5 history1 9 2 5 NONE NONE NONE NONE NONE NONE NONE NO	0 8 1 35 756 598 261 2870 history2 7 <1 5 Vistory2 NONE NONE NONE NONE NONE NONE NONE NON
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 <b>limit/base</b> NONE NONE NONE NONE NONE NORML NORML	0 0 <1 4 145 388 46 2434 current 7 1 3 current 7 1 3 current NONE NONE NONE NONE NONE NONE NONE NON	0 7 <1 37 772 534 269 2703 history1 9 2 5 history1 9 2 5 NONE NONE NONE NONE NONE NONE NONE N	0 8 1 35 756 598 261 2870 history2 7 <1 5 5 history2 NONE NONE NONE NONE NONE NONE NONE NON

Report Id: TRANEW [WUSCAR] 06218652 (Generated: 06/25/2024 18:17:50) Rev: 1



# **OIL ANALYSIS REPORT**



	FLUID PROPERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C cSt	ASTM D44	5	98.0	88.3	91.6
	SAMPLE IMAGES	method	limit/base	current	history1	history2
* *	Color			no image	no image	no image
May23/24	Bottom			no image	no image	no image
	GRAPHS Ferrous Alloys	Feb4/24 Feb4/24 Feb4/24 Feb4/24 Feb4/24 Mar23/24	Jun18/24			
Laboratory Sample No. Lab Number	: 06218652 <b>T</b> e	eceived : 2 ested : 2	ry, NC 27513 24 Jun 2024 25 Jun 2024			TRUCTION CO. DRAWER 1578 EW BERN, NC



 Unique Number
 : 11096849
 Diagnosed
 : 25 Jun 2024 - Wes Davis

 Certificate 12367
 Test Package
 : CONST
 mwyatt@

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

 \* - 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)

PO DRAWER 1578 NEW BERN, NC US 28563 Contact: MIKE WYATT mwyatt@traderconstruction.com T: (252)633-1399 # 106:2012) F: (252)638-4871

Contact/Location: MIKE WYATT - TRANEW