

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



CATERPILLAR D6 LGP 10038 (S/N KEW01124) Component Left Final Drive

Fluid NOT GIVEN (--- 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		WC0862996	WC0831349	WC0831234
Sample Date		Client Info		13 Nov 2023	14 Sep 2023	04 Jul 2023
Machine Age	hrs	Client Info		2197	1646	1080
Oil Age	hrs	Client Info		551	566	464
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
	J	method	limit/base		history1	history2
Water	•	WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	10	22	18
Chromium	ppm	ASTM D5185m	>10	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		1	4	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	<1	1	1
Tin	ppm	ASTM D5185m	>8	0	0	<1
Vanadium	ppm	ASTM D5185m	20	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppin		limit/base	-	history1	-
ADDITIVES		method	limit/base	current	143	history2 175
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		-		
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Marian and the				2	5	3
-	ppm	ASTM D5185m				
Calcium	ppm	ASTM D5185m		214	387	258
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		214 368	387 428	258 400
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		214 368 67	387 428 138	258 400 80
Calcium Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		214 368 67 1949	387 428 138 2877	258 400 80 4997
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	214 368 67 1949 current	387 428 138 2877 history1	258 400 80 4997 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	limit/base	214 368 67 1949 current 4	387 428 138 2877 history1 16	258 400 80 4997 history2 4
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>400	214 368 67 1949 <u>current</u> 4 0	387 428 138 2877 history1 16 2	258 400 80 4997 history2 4 1
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>400	214 368 67 1949 current 4	387 428 138 2877 history1 16	258 400 80 4997 history2 4
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>400 >20 limit/base	214 368 67 1949 current 4 0 1 1 current	387 428 138 2877 history1 16 2 <1 kistory1	258 400 80 4997 history2 4 1 2 kistory2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m	>400 >20 limit/base NONE	214 368 67 1949 current 4 0 1 1 current NONE	387 428 138 2877 history1 16 2 <1 4 history1 NONE	258 400 80 4997 history2 4 1 2 history2 NONE
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>400 >20 limit/base NONE NONE	214 368 67 1949 current 4 0 1 current NONE NONE	387 428 138 2877 history1 16 2 <1 kistory1 NONE NONE	258 400 80 4997 history2 4 1 2 history2 NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m <b>thod</b> *Visual *Visual	>400 >20 limit/base NONE NONE NONE	214 368 67 1949 current 4 0 1 1 current NONE NONE NONE NONE	387 428 138 2877 history1 16 2 <1 10 istory1 NONE NONE NONE	258 400 80 4997 history2 4 1 2 history2 NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>400 >20 limit/base NONE NONE	214 368 67 1949 current 4 0 1 current NONE NONE	387 428 138 2877 history1 16 2 <1 kistory1 NONE NONE	258 400 80 4997 history2 4 1 2 history2 NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m <b>thod</b> *Visual *Visual	>400 >20 limit/base NONE NONE NONE	214 368 67 1949 current 4 0 1 1 current NONE NONE NONE NONE	387 428 138 2877 history1 16 2 <1 10 istory1 NONE NONE NONE	258 400 80 4997 history2 4 1 2 history2 NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>400 >20 limit/base NONE NONE NONE NONE	214 368 67 1949 current 4 0 1 1 current NONE NONE NONE NONE	387 428 138 2877 history1 16 2 <1 16 2 <1 NONE NONE NONE NONE NONE	258 400 80 4997 history2 4 1 2 history2 NONE NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 Imit/base NONE NONE NONE NONE NONE	214 368 67 1949 <u>current</u> 4 0 1 1 <u>current</u> NONE NONE NONE NONE NONE	387 428 138 2877 history1 16 2 <1 16 2 <1 NONE NONE NONE NONE NONE NONE NONE	258 400 80 4997 history2 4 1 2 history2 NONE NONE NONE NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 Iimit/base NONE NONE NONE NONE NONE	214 368 67 1949 current 4 0 1 current NONE NONE NONE NONE NONE NONE NONE	387 428 138 2877 history1 16 2 <1 16 2 <1 NONE NONE NONE NONE NONE NONE NONE NON	258 400 80 4997 history2 4 1 2 history2 NONE NONE NONE NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	214 368 67 1949 Current 4 0 1 Current NONE NONE NONE NONE NONE NONE NONE NONE NONE	387 428 138 2877 history1 16 2 <1 2 <1 NONE NONE NONE NONE NONE NONE NONE NON	258 400 80 4997 history2 4 1 2 NONE NONE NONE NONE NONE NONE NONE NO



## **OIL ANALYSIS REPORT**



C	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		93.9	98.5	113
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
23 -	Color				no image	no image	no image
Sep 14/23	Bottom				no image	no image	no image
	GRAPHS						
to	Ferrous Alloys	ls	Sep 14/23	Nov1323			
	Viscosity @ 40°C		Sep14/23	Nov13/23			
(1-0-0) SS	200 150 Abnormal Abnormal						
	00 		Sep14/23	Nov13/23			
Laboratory Sample No. Lab Number Unique Number Test Package To discuss this sample report, c * - Denotes test methods that ar Statements of conformity to specifi	: WearCheck USA - : WC0862996 : 06012819 : 10751963 : CONST ontact Customer Serv re outside of the ISO 1	Received Diagnose Diagnost vice at 1-8 7025 sco	l : 20 N ed : 22 N ician : Sear 00-237-1369. pe of accredii	ov 2023 ov 2023 n Felton tation.	n	N Contact nwyatt@tradercc T:	DRAWER 1578 EW BERN, NC US 28563 MIKE WYATT

Contact/Location: MIKE WYATT - TRANEW