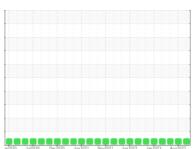


# **OIL ANALYSIS REPORT**

### **Sample Rating Trend**







CATERPILLAR D10T 15105049 (S/N CATOD10TCRJG01495)

Left Final Drive

**CHEVRON 50WT (--- GAL)** 

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Moor

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

## **Fluid Condition**

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

		812020 0012	IZU DeczUZU JUNZUZI	NOVEUE JUNEUEE JANEUES	Augzozs	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0033751	RP0033356	RP0022100
Sample Date		Client Info		13 Sep 2023	02 Aug 2023	20 Mar 2023
Machine Age	hrs	Client Info		24938	24690	24481
Oil Age	hrs	Client Info		453	209	2394
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	39	38	26
Chromium	ppm	ASTM D5185m	>10	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>15	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	3	2	2
Lead	ppm	ASTM D5185m	>10	0	1	0
Copper	ppm	ASTM D5185m		1	1	<1
Tin	ppm	ASTM D5185m	>8	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	4	3
Manganese		ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		18	28	22
	ppm			3705	3605	3380
Calcium	ppm	ASTM D5185m		1001		
		ACTM DE10E				
Phosphorus	ppm	ASTM D5185m			961	896
Zinc	ppm	ASTM D5185m ASTM D5185m		1206	1176	1073
	ppm	ASTM D5185m method	limit/base	1206 current	1176 history1	1073 history2
Zinc	ppm	ASTM D5185m	limit/base >400	1206	1176 history1 25	1073
Zinc	ppm	ASTM D5185m method		1206 current	1176 history1	1073 history2
Zinc CONTAMINANTS Silicon	ppm	ASTM D5185m  method  ASTM D5185m		1206 current 26	1176 history1 25	1073 history2 22
Zinc CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m	>400	1206 current 26 0	1176 history1 25 2	1073 history2 22 2
Zinc  CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m	>400 >20	1206  current 26 0 2	1176 history1 25 2	1073 history2 22 2 0
Zinc  CONTAMINANTS  Silicon  Sodium  Potassium  Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304	>400 >20 >0.2	1206  current  26  0  2  0.024	1176 history1 25 2 2 0.029	1073 history2 22 2 0 0.027 276.2
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304	>400 >20 >0.2 >2000	1206  current  26  0  2  0.024  240.9	1176 history1 25 2 2 0.029 296.6	1073 history2 22 2 0 0.027 276.2
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA	ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  method	>400 >20 >0.2 >2000	1206  current 26 0 2 0.024 240.9  current	1176 history1 25 2 2 0.029 296.6 history1	1073 history2 22 2 0 0.027 276.2 history2 1.17
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal	ppm ppm ppm ppm % ppm % ppm % scalar	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  Method  ASTM D8045  method  *Visual	>400 >20 >0.2 >2000 limit/base NONE	1206     current 26     0 2     0.024 240.9     current 1.20     current NONE	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE	1073 history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm % ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  Method  ASTM D8045  method  *Visual  *Visual	>400  >20 >0.2 >2000  limit/base  NONE  NONE	1206	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE NONE	1073 history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE NONE
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal	ppm ppm ppm ppm % ppm % ppm % scalar	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  Method  ASTM D8045  method  *Visual	>400 >20 >0.2 >2000 limit/base NONE	1206     current 26     0 2     0.024 240.9     current 1.20     current NONE	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE	1073 history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal Yellow Metal	ppm ppm ppm ppm % ppm % ppm % scalar scalar	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  Method  ASTM D8045  method  *Visual  *Visual	>400  >20 >0.2 >2000  limit/base  NONE  NONE	1206	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE NONE	1073 history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE NONE
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm % ppm % ppm % ppm % scalar scalar scalar	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  Method  ASTM D8045  method  *Visual  *Visual  *Visual	>400  >20  >0.2  >2000  limit/base  NONE  NONE  NONE	1206	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE NONE	1073 history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE NONE NONE
Zinc  CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm % ppm % ppm % ppm % scalar scalar scalar scalar	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  method  ASTM D8045  method  *Visual  *Visual  *Visual  *Visual	>400  >20  >0.2  >2000  limit/base  NONE  NONE  NONE  NONE	1206	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE NONE NONE	1073 history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE NONE NONE
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm % ppm TION mg KOH/g scalar scalar scalar scalar scalar	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  method  ASTM D8045  method  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual	>400  >20 >0.2 >2000  limit/base  NONE NONE NONE NONE NONE NONE	1206	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE NONE NONE NONE NONE	1073 history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE NONE NONE NONE NONE
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm % ppm % ppm KTION mg KOH/g scalar scalar scalar scalar scalar scalar	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  method  ASTM D8045  method  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual	>400  >20  >0.2  >2000  limit/base  NONE  NONE  NONE  NONE  NONE  NONE  NONE  NONE  NONE	1206 current 26 0 2 0.024 240.9 current 1.20 current NONE NONE NONE NONE NONE NONE NONE NON	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE NONE NONE NONE NONE NONE NONE NON	1073 history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE NONE NONE NONE NONE NONE NONE NON
Zinc  CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)  VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm % ppm % ppm % ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  Method  ASTM D8045  method  *Visual  *Visual	>400  >20 >0.2 >2000  limit/base  NONE NONE NONE NONE NONE NONE NONE NO	1206 current 26 0 2 0.024 240.9 current 1.20 current NONE NONE NONE NONE NONE NONE NONE NON	1176 history1 25 2 2 0.029 296.6 history1 1.16 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 22 2 0 0.027 276.2 history2 1.17 history2 NONE NONE NONE NONE NONE NONE NONE NON



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0033751 : 05959871 : 10661084

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

Received : 25 Sep 2023 Diagnosed Diagnostician : Don Baldridge

: 26 Sep 2023

**NRG TEXAS LLC** 3784 FM 39 SOUTH JEWETT, TX US 75846

Contact: JURGEN THOMPSON

JThompson@ecomaterial.com T: (903)626-9528

\* - 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)

F: (903)626-9772