

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Machine Id **CATERPILLAR 12G 8318 (S/N 61M12623)** Component Left Final Drive Fluid

TDTO FLUID SAE 30 (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

A Wear

Bearing and/or bushing wear is indicated. Gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		WC0913064	WC0862975	WC0836998
Sample Date		Client Info		06 May 2024	03 Nov 2023	11 Sep 2023
Machine Age	hrs	Client Info		13395	12357	11872
Oil Age	hrs	Client Info		296	485	574
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	~800	A 868	1036	1161
Chromium	nnm	ASTM D5185m	>10	9	10	8
Nickel	ppm	ASTM D5185m	>5	34	27	17
Titanium	nnm	ASTM D5185m	>15	5	6	5
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	<u>42</u>	54	5 0
Lead	ppm	ASTM D5185m	>10	2	2	<1
Copper	ppm	ASTM D5185m	>75	<u> </u>	268	▲ 208
Tin	ppm	ASTM D5185m	>8	▲ 11	▲ 15	▲ 11
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	mag	ASTM D5185m		0	0	<1
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ADDITIVES		method	iimit/base	current	nistory i	nistory2
Boron	ppm	ASTM D5185m	37	151	192	1 73
Barium	ppm	ASTM D5185m	7	0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	<1	<1
Manganese	ppm	ASTM D5185m		7	8	11
Magnesium	ppm	ASTM D5185m	40	4	4	6
Calcium	ppm	ASTM D5185m	2650	259	54	93
Phosphorus	ppm	ASTM D5185m	1050	419	351	367
	ppm	ASTM D5185m	1075	151	6	16
Sulfur	ppm	ASTM D5185m	5750	2237	1948	2277
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	<u> </u>	<mark>▲</mark> 584	4 516
Sodium	ppm	ASTM D5185m		6	5	2
Potassium	ppm	ASTM D5185m	>20	11	16	12
VISUAL		method	limit/base	current	history1	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	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	acolor	*\/:	NONE		NIGNIE	NONE
	scalar	visuai	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NONE NORML	NORML	NORML
Appearance Odor	scalar scalar scalar	*Visual *Visual	NORML NORML	NONE NORML NORML	NORML NORML	NORML
Appearance Odor Emulsified Water	scalar scalar scalar scalar	*Visual *Visual *Visual	NORML NORML >0.2	NONE NORML NORML NEG	NORML NORML 0.2%	NORML NORML 0.2%



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Contact/Location: MIKE WYATT - TRANEW