

# **OIL ANALYSIS REPORT**

Sample Rating Trend





## Machine Id **CATERPILLAR 745D 13405 (S/N 3T606094)** Component Brake

Fluid {not provided} (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

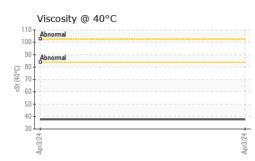
## Fluid Condition

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		WC0913164		
Sample Date		Client Info		03 Apr 2024		
Machine Age	hrs	Client Info		2240		
Oil Age	hrs	Client Info		1004		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>350	12		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>8	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>150	10		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		55		
Barium	ppm	ASTM D5185m		1		
Molybdenum	ppm	ASTM D5185m		1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		15		
Calcium	ppm	ASTM D5185m		2775		
Phosphorus	ppm	ASTM D5185m		1079		
Zinc	ppm	ASTM D5185m		1201		
Sulfur	ppm	ASTM D5185m		4323		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	91		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	0		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water 6:49:46) Rev: 1	scalar	*Visual		NEG		
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Visc @ 40°C cSt SAMPLE IMAGES	ASTM D445 method	limit/base	37.7 current	 history1	 history
	method	limit/base	current	history1	history
			no image	no image	no image
Color			no image	nonnage	no image
Bottom			no image	no image	no image
Dottom			no image	nomage	no imag
GRAPHS					
Ferrous Alloys		-			
10 - chromium					
8					
<u>6</u> . 6					
4 -					
2-					
Apr3/24		Apr3/24			
		Ap			
Non-ferrous Metals		_			
9 copper 8 constant lead					
7					
E 5-					
4 <b>-</b>					
2					
24		24			
Apr3/24		Apr3/24			
Viscosity @ 40°C					
100 - Abnormal					
90 - Abnormal					
80- 					
50 -					
40 -					
30 + 1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		Apr3/24			
Ap		Ap			



Unique Number : 10977749 : 16 Apr 2024 - Jonathan Hester Diagnosed Test Package : CONST Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mwyatt@traderconstruction.com \* - 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)

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