

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Area MINING ME-06 CATERPILLAR 745C TFK01686 Component Rear Differential

Fluid SHELL Spirax S4 CX 30 (--- 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.

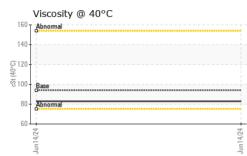
## Fluid Condition

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

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0944194		
Sample Date		Client Info		14 Jun 2024		
Machine Age	hrs	Client Info		16214		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	35		
Chromium	ppm	ASTM D5185m	>3	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>30	7		
Lead	ppm	ASTM D5185m	>13	0		
Copper	ppm	ASTM D5185m	>103	95		
Tin		ASTM D5185m	>5	95 1		
Vanadium	ppm		20	0		
	ppm	ASTM D5185m		-		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		45		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		27		
Calcium	ppm	ASTM D5185m		3241		
Phosphorus	ppm	ASTM D5185m		1026		
Zinc	ppm	ASTM D5185m		1141		
Sulfur	ppm	ASTM D5185m		5859		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	18		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
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	>.2	NEG		
Free Water	scalar	*Visual		NEG		
:32:11) Rev: 1	Jouran				ation: Brian Bur	nell - COVORE



## **OIL ANALYSIS REPORT**



Visc @ 40°C cSt	ASTM D445	93.9	82.9		
SAMPLE IMAGES	method	limit/base	current	history1	histo
Color			no image	no image	no ima
Dettern					
Bottom			no image	no image	no im
GRAPHS					
Ferrous Alloys					
35 30					
25					
_ 20-					
5					
10					
5-					
0 Li		***			
Jun 14/24		Jun 14/24			
		Jun14/24			
		Junt			
Viscosity @ 40°C					
150 -					
140					
2 120					
5 120 E 3 110					
100 Base					
100 Base					
100 - Base 90 -		Jun14/24			



Unique Number : 11088986 Diagnosed : 21 Jun 2024 - Wes Davis Test Package : CONST Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)

US 61061-0156 Contact: Brian Bunnell brian.bunnell@coviacorp.com T: (815)677-8700 F: