

# **OIL ANALYSIS REPORT**

Sample Rating Trend





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

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.

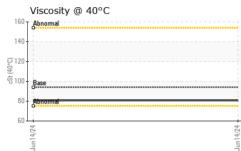
### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC0944193					
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	J	method	limit/base	current	history1	history2			
Water	<u> </u>	WC Method		NEG					
WEAR METALS			limit/base	-	biotoryd	biotomyO			
		method		current	history1	history2			
Iron	ppm	ASTM D5185m	>500	36					
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	2					
Lead	ppm	ASTM D5185m	>13	0					
Copper	ppm	ASTM D5185m	>103	64					
Tin	ppm	ASTM D5185m	>5	2					
Vanadium	ppm	ASTM D5185m		0					
Cadmium	ppm	ASTM D5185m		0					
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m		53					
Barium	ppm	ASTM D5185m		0					
Molybdenum	ppm	ASTM D5185m		<1					
Manganese	ppm	ASTM D5185m		<1					
Magnesium	ppm	ASTM D5185m		26					
Calcium	ppm	ASTM D5185m		3183					
Phosphorus	ppm	ASTM D5185m		1065					
Zinc	ppm	ASTM D5185m		1154					
Sulfur	ppm	ASTM D5185m		6951					
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>100	18					
Sodium	ppm	ASTM D5185m	, 100	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					
			NORML						
Appearance	scalar	*Visual		NORML					
Odor	scalar	*Visual	NORML	NORML					
Emulsified Water	scalar	*Visual	>.2	NEG					
Free Water	scalar	*Visual		NEG	a itact/Location: Brian Bunnell - COVORE				



## **OIL ANALYSIS REPORT**



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445	93.9	80.6		
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image
GRAPHS					
Ferrous Alloys					
35 - iron iron chromium					
25					
톨 20 <b>-</b>					
15 -					
10					
Jun 14/24		Jun14/24			
⊰ Non-ferrous Metals		٦٢			
70 copper					
60 - Internet lead					
50					
40 30					
20					
10-					
0		4			
Jun 14/24		Jun 14/24			
Viscosity @ 40°C		,			
160 150					
140 -					
130					
⊊ 120 - ğ 110 -					
100 Base					
90					
70					
Jun 14/24		Jun 14/24			
ŕ		Ϊ			
: WearCheck USA - 501 Madiso : WC0944193 Rece : 06216121 Teste : 11088985 Diag	ived : 20 ed : 21	, NC 27513 Jun 2024 Jun 2024 Jun 2024 - V		46 DEVILS BAC	DREGON - 0 KBONE RO OREGON IS 61061-01



 Unique Number
 : 11088985
 Diagnosed
 : 21 Jun 2024 - Wes Davis

 Certificate L2367
 Test Package
 : CONST

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

 \* - 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)

1446 DEVILS BACKBONE ROAD OREGON, IL US 61061-0156 Contact: Brian Bunnell brian.bunnell@coviacorp.com T: (815)677-8700 106:2012) F:

Contact/Location: Brian Bunnell - COVORE Page 2 of 2