

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.

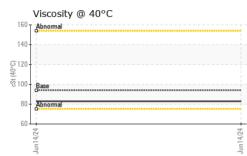
Fluid Condition

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



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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)

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