

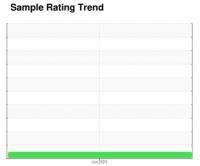
OIL ANALYSIS REPORT



MINING ME-502 CATERPILLAR 988K TWX01543

Transmission (Manual)

SHELL Spirax S4 CX 30 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

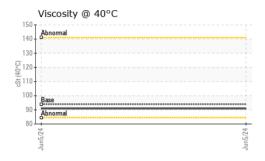
Fluid Condition

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

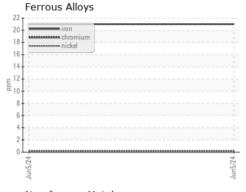
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SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0944299		
Sample Date		Client Info		05 Jun 2024		
Machine Age	hrs	Client Info		14009		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	I	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	21		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>7	0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>45	1		
Copper	ppm	ASTM D5185m	>225	25		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		4		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		75		
Calcium	ppm	ASTM D5185m		2699		
Phosphorus	ppm	ASTM D5185m		931		
Zinc	ppm	ASTM D5185m		1184		
Sulfur	ppm	ASTM D5185m		5821		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	22		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	9		
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		
Ont		*Visual	NONE	NONE		
	scalar					
Debris	scalar	*Visual	NONE	NONE		
Debris Sand/Dirt			NONE NORML	NONE NORML		
Debris Sand/Dirt Appearance	scalar	*Visual				
Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML	NORML		
Debris Sand/Dirt Appearance Odor	scalar scalar scalar	*Visual *Visual *Visual	NORML NORML	NORML NORML		



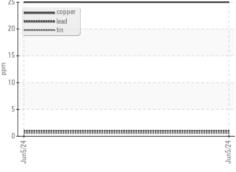
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	93.9	90.9		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image



Non-ferrous Metals



Viscosity @ 40°C







Certificate 12367

Laboratory

Sample No. : WC0944299 Lab Number : 06208203

Unique Number : 11075664 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jun 2024 Tested

: 14 Jun 2024 : 14 Jun 2024 - Wes Davis Diagnosed

COVIA - OREGON - 004 1446 DEVILS BACKBONE ROAD OREGON, IL

US 61061-0156 Contact: Brian Bunnell

brian.bunnell@coviacorp.com T: (815)677-8700

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)