

OIL ANALYSIS REPORT

MINING

ME-30 KOMATSU PC360LC A35957

Hydraulic System

SHELL Spirax S4 CX 10W (--- GAL)

Sample Rating Trend **WEAR**

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920014		
Sample Date		Client Info		02 Apr 2024		
Machine Age	hrs	Client Info		3356		
Oil Age	hrs	Client Info		100		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4 30		
Chromium	ppm	ASTM D5185m	>10	1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	4		
Lead	ppm	ASTM D5185m	>10	4		
Copper	ppm	ASTM D5185m	>75	10		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		12		
Calcium	ppm	ASTM D5185m		186		
Phosphorus	ppm	ASTM D5185m		278		
Zinc	ppm	ASTM D5185m		333		
Sulfur	ppm	ASTM D5185m		2683		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	4		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 31262		
Particles >6µm		ASTM D7647	>1300	^ 2684		
Particles >14μm		ASTM D7647	>160	^ 208		
Particles >21µm		ASTM D7647	>40	40		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/19/15</u>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

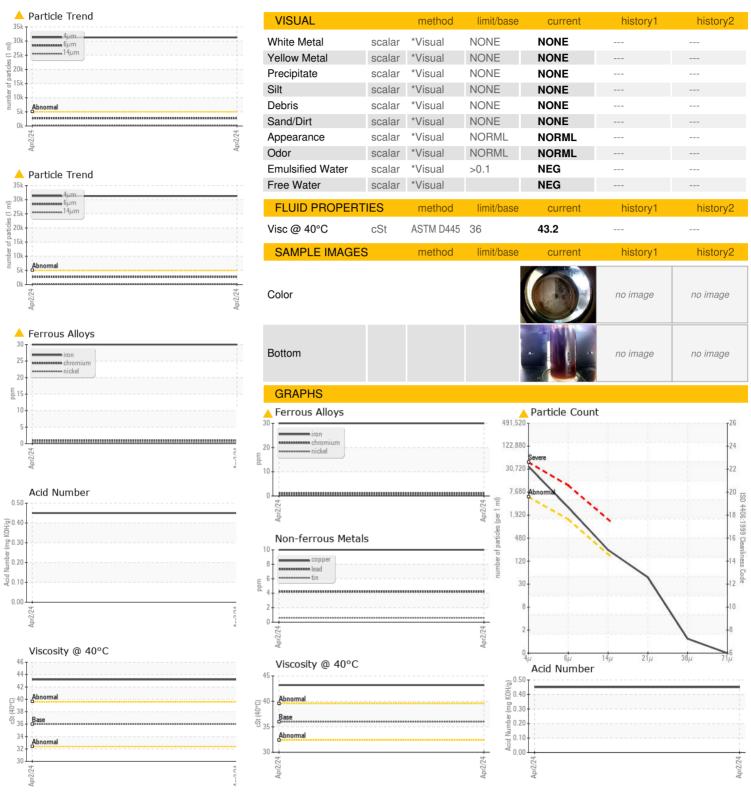
mg KOH/g ASTM D8045

0.45

Submitted By: Megan Mousel



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06141229

Test Package : CONST

: WC0920014 Unique Number : 10966037

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024 Tested : 09 Apr 2024

Diagnosed : 10 Apr 2024 - Don Baldridge

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

 st - 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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