

## **OIL ANALYSIS REPORT**

# CIS After Cure [CIS After Cure] 361219002 - REWORK TABLE

Hydraulic System

SHELL OMALA S2 GX 68 (--- GAL)

### DIAGNOSIS

#### Recommendation

The 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 component wear rates are normal.

#### 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 acceptable for the time in service.

EWORK TA	BLE					
		Jul202	2 Jul2023	Feb2024 M	ay2024	
SAMPLE INFORM		method	lineit/baca	ourroat	biotonut	history ()
			limit/base		history1	history2
Sample Number		Client Info		TLC0001388	TLC0001388	TLC0001180
Sample Date Machine Age	bro	Client Info Client Info		06 May 2024	01 Feb 2024	11 Jul 2023
Oil Age	hrs hrs	Client Info		0	0	0
Oil Changed	1115	Client Info		Filtered	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>30	<b>4</b> 5	0	0
Chromium	ppm	ASTM D5185m	>2	3	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>2	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>25	1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		1	<1	4
Calcium	ppm	ASTM D5185m		328	38	41
Phosphorus	ppm	ASTM D5185m		260	261	277
Zinc	ppm	ASTM D5185m		41	316	333
Sulfur	ppm	ASTM D5185m		8361	1393	1700
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	0	<1
Sodium	ppm	ASTM D5185m		16	<1	1
Potassium	ppm	ASTM D5185m	>20	1	0	3
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	458	998
Particles >6µm		ASTM D7647	>1300	<u> </u>	121	278
Particles >14µm		ASTM D7647	>160	299	18	29
Particles >21µm		ASTM D7647		12	7	8
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 24/23/15	16/14/11	17/15/12
FLUID DEGRADA		method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.13	0.26	0.29

Sample Rating Trend

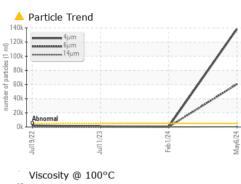
**WEAR** 

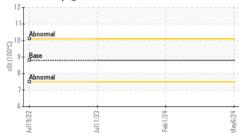


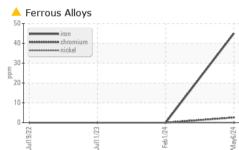
## **OIL ANALYSIS REPORT**

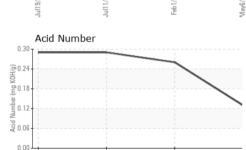
Color

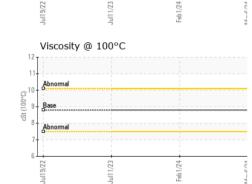
Bottom





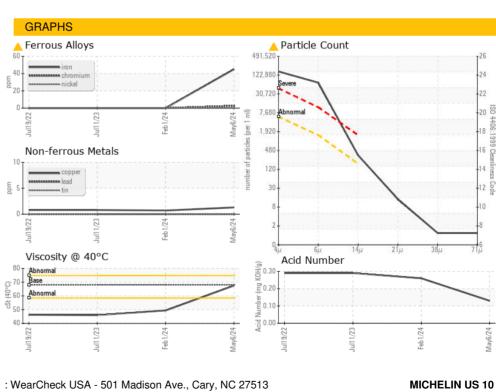






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	67.49	49.4	46.0
Visc @ 100°C	cSt	ASTM D445	8.8	8.8		
Viscosity Index (VI)	Scale	ASTM D2270	101	102		
SAMPLE IMAGES		method	limit/base	current	history1	history2







Laboratory 16 BIBB WAY Sample No. : TLC0001388 Received : 09 May 2024 Lab Number : 06174530 Tested : 13 May 2024 ANDERSON, SC Unique Number : 11020583 Diagnosed : 13 May 2024 - Angela Borella Test Package : PLANT (Additional Tests: KV100, VI) Contact: TERRICK PRESLEY Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. terrick.presley@michelin.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (803)761-8053 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: MICAND [WUSCAR] 06174530 (Generated: 05/13/2024 14:05:42) Rev: 1

Submitted By: DUSTY LOLLIS

Page 2 of 2

F:

US 29626