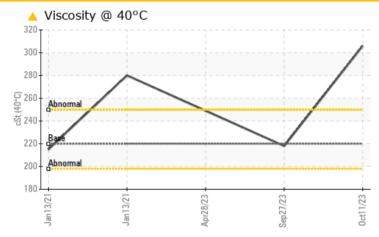
## **PROBLEM SUMMARY**

## Machine Id 34THK102

Component Gearbox Fluid SHELL OMALA S2 G 220 (--- GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	SEVERE	
Visc @ 40°C	cSt	ASTM D7279(m)	220	<u> </u>	218		

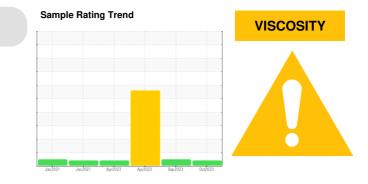
### Customer Id: INCOCLARA Sample No.: WC0837969 Lab Number: 02590413 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

*To change component or sample information:* Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		

### **HISTORICAL DIAGNOSIS**



## 27 Sep 2023 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### 28 Apr 2023 Diag: Kevin Marson

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. {not applicable} There is a high concentration of water present in the oil. Excessive free water present. {not applicable} The oil is no longer serviceable due to the presence of contaminants.



#### 28 Apr 2023 Diag: Kevin Marson

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







view report





## **OIL ANALYSIS REPORT**

Sample Rating Trend

## VISCOSITY

### Machine Id 34THK102

Component Gearbox Fluid SHELL OMALA S2 G 220 (--- GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

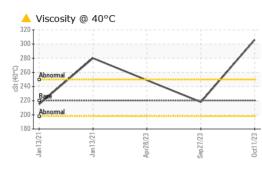
#### Fluid Condition

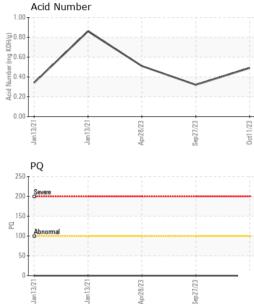
Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		mathad	limit/booo	ourroat	biotomit	biotory 0
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837969	WC0820697	WC
Sample Date		Client Info		11 Oct 2023	27 Sep 2023	28 Apr 2023
Machine Age	days	Client Info		60	60	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>200	5	4	46
Chromium	ppm	ASTM D5185(m)	>15	0	0	0
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	0	0	<1
Lead	ppm	ASTM D5185(m)	>100	0	0	0
Copper	ppm	ASTM D5185(m)	>200	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>25	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4.4	5	<1	5
Barium	ppm	ASTM D5185(m)	0.0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	0	0	2
Calcium	ppm	ASTM D5185(m)	0	1	1	12
Phosphorus	ppm	ASTM D5185(m)	215	297	283	255
Zinc	ppm	ASTM D5185(m)	0	2	<1	1
Sulfur	ppm	ASTM D5185(m)	7039	7880	8352	7641
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	2	<1	<1
Sodium	ppm	ASTM D5185(m)		<1	<1	5
Potassium	ppm	ASTM D5185(m)	>20	0	0	2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.49	0.32	
AGIO MULLIDEL (AIN)	iiiy N∪⊓/g	AUTIVI U974		0.43	0.02	



# **OIL ANALYSIS REPORT**





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	VLITE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	🔺 LAYRD
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	<b>1</b> %
Free Water	scalar	Visual*		NEG	NEG	▲ >10%
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	<mark>/</mark> 306	218	
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
Bottom						



