

## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method limit/base



Machine Id **P-2** Component **Gearbox** Fluid **SHELL OMALA S2 GX 220 (--- GAL)** 

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

## 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 Number		Client Info		WC0917259	WC0893791	WC0831569
Sample Date		Client Info		03 Jun 2024	29 Jan 2024	16 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	۷	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	14	15	12
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	0
Lead	ppm	ASTM D5185m	>50	<1	2	<1
Copper	ppm	ASTM D5185m	>200	42	38	36
Tin	ppm	ASTM D5185m	>10	<1	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6.2	0	0	<1
Barium	ppm	ASTM D5185m	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	3	15
Calcium	ppm	ASTM D5185m	0.0	2	2	5
Phosphorus	ppm	ASTM D5185m	290	192	157	153
Zinc	ppm	ASTM D5185m	3.8	15	15	8
Sulfur	ppm	ASTM D5185m	8167	10918	11951	8279
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	2	2
Sodium	ppm	ASTM D5185m		<1	0	2
Potassium	ppm	ASTM D5185m	>20	0	2	0
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG Contact/Lo	NEG	

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ontact/Location: KENNY BELL - UNIFAY



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		FLUID PROPER	TIES	method	limit/base	current	history1	history2
		Visc @ 40°C	cSt	ASTM D445	220	189	187	191
		SAMPLE IMAGE	S	method	limit/base	current	history1	history2
23	24	Color				no image	no image	no image
Jun20/ 0ct16/	Jan 29,	Bottom				no image	no image	no image
		GRAPHS						
		Iron (ppm)			20	Lead (ppm)		
		400 - Severe			15	Severe		
		8 <sup>300</sup>			Ē 10	10		
		200 - Abnormal			8.0	Abnormal		
		100				u - <b>q</b>		
		8/22	21/23	16/23 <b>-</b> 29/24 <b>-</b>	13/24	8/22	21/23 -	16/23 -
		Mar	Jun2	0ct' Jan'i	Jur	Mar2	Febž	Octi Janí
		Aluminum (ppm)			3	Chromium (p	pm)	
		60 -			2	5 - Severe		
		Ē.40	20 E 15					
		Abnormal			1	0 - Abnormal		
		0				5		
		/31/22 118/22	21/23	20/23 - 16/23 + 29/24   13/24   13/22 - 14/22 - 21/23 - 20/23 - 16/23 -	t16/23 -			
			Jur Fet	0c Jar	٦٢	Silicon (nnm)	Jur Fet	0c Jar
		<sup>500</sup>			14	Sincon (ppm)		
		400 - <b>Severe</b>			12	0		
		300 - Abnormal			e 8	0-		
	200			4				
					2	0		
		rr31/22 il18/22 v14/22	b21/23 n20/23	t16/23 n29/24	un3/24	r/31/22 i118/22 v14/22	b21/23 n20/23	:t16/23 n29/24
		≊ ⊸ ≥ Viscosity @ 40°C	Ju Fe	Jai	7	≗ ∹ ≗ Additives	Jun Fei	Jai
	250 Abnormal			35				
		230 -			30	0 - phosphon	IS	
		220 Base			§ 200	Sandara and a second		
		200			10	10 -		
		190 Abnormal 180 -			5	0		
		ar31/22 ul18/22 b/21/23	n20/23	ct16/23 m29/24	un3/24	ar31/22 ul18/22 vv14/22	b21/23 n20/23	ct16/23 m29/24
	Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 50 : WC0917259 : 06199614 : 11061737 : MOB 1	01 Madis Rece Test Diag	on Ave., Cary sived : 04 ed : 05 nosed : 05	v, NC 27513 4 Jun 2024 5 Jun 2024 5 Jun 2024 - V	Ves Davis	UNITED TOC 2817 EN FAY	<b>L &amp; STAMPIN</b> TERPRISE AV ETTEVILLE, N US 283 DS 283
icouce th	is sample report	, contact Customer Ser	vice at 1-	800-237-136	9.		KENNY.BELL	@UTS-NC.CC

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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