

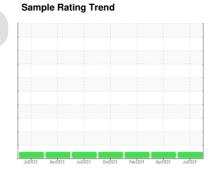
# **OIL ANALYSIS REPORT**

# Preparation-Prep CBL MILL

[Preparation-Prep CBL MILL] 360006026 - CBL MILL PLASITIFIER

# Gearbox

SHELL OMALA S2 GX 460 (280 LTR)





## DIAGNOSIS

### 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

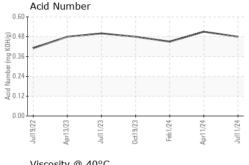
### **Fluid Condition**

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

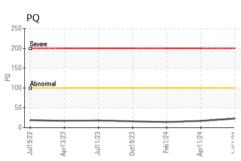
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TLC0001971	TLC0001757	TLC0001355
Sample Date		Client Info		11 Jul 2024	11 Apr 2024	01 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		23	17	14
Iron	ppm	ASTM D5185m	>200	14	10	5
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	<1	<1
Copper	ppm	ASTM D5185m	>200	3	3	2
Tin	ppm	ASTM D5185m	>25	0	<1	0
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	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0.0	0	<1	0
Phosphorus	ppm	ASTM D5185m	290	313	307	220
Zinc	ppm	ASTM D5185m	3.8	222	224	200
Sulfur	ppm	ASTM D5185m	8167	20467	20482	16037
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7	5	2
Sodium	ppm	ASTM D5185m		2	2	<1
Potassium	ppm	ASTM D5185m	>20	0	3	<1
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.51	0.45



# **OIL ANALYSIS REPORT**



	sity @	40°C				
520 Abnorm	al					
500						
480 Base						
2 460 - Base			_		_	
\$ 420						
400 -						i.
380						
360 Abnom	al					
9/22	3/23	1/23	9/23	Feb1/24	1/24	Jul11/24
Jul19/2	Apr13/2	135	0ct19/	율	Apr1	E



VISUAL		method				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
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

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Visc @ 40°C	cSt	ASTM D445	460	439	448	441

	GES

Color

**Bottom** 



Ferrous Alloys PQ 220 160 140 2 120 · 100 Non-ferrous Metals 80 Viscosity @ 40°C Acid Number (B) 0.60 W) 0.48 500 Ē 0.36 흔 0.24 400 톨 0.12 P 0.00 Apr11/24





Certificate 12367

Laboratory Sample No.

Lab Number : 06240980 Unique Number : 11129814

: TLC0001971 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024 **Tested** : 20 Jul 2024

Diagnosed : 20 Jul 2024 - Wes Davis

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

US 29626 Contact: TERRICK PRESLEY terrick.presley@michelin.com T: (803)761-8053

\* - 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)

F:

**MICHELIN US 10** 

ANDERSON, SC

16 BIBB WAY