

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

401 CRANE SW BRIDGE

Gearbox Fluid SHELL OMALA S4 GX 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.

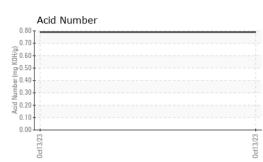
Fluid Condition

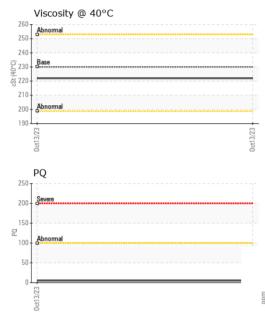
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0698341		
Sample Date		Client Info		13 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS		method	limit/base		history1	history2
			iiiiii/base			
PQ		ASTM D8184*	000	5		
Iron	ppm	ASTM D5185(m)		49		
Chromium	ppm	ASTM D5185(m)	>15	<1		
Nickel	ppm	ASTM D5185(m)	>15	1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>100	0		
Copper	ppm	ASTM D5185(m)	>200	<1		
Tin	ppm	ASTM D5185(m)	>25	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		21		
Barium	ppm	ASTM D5185(m)		1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		<1		
Calcium	ppm	ASTM D5185(m)		10		
Phosphorus	ppm	ASTM D5185(m)		406		
Zinc	ppm	ASTM D5185(m)		26		
Sulfur	ppm	ASTM D5185(m)		5075		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	14		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	2		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.79		



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
0ct13/23	Appearance	scalar	Visual*	NORML	NORML		
Octi	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt /	ASTM D7279(m)	230	222		
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
0ct13/23 -	Color					no image	no image
0							
	Pottom						
	Bottom					no image	no image
	GRAPHS						
-	Ferrous Alloys			330	PQ		
	40 iron			220	Sminn		
	Chromium			200	- 0		,
	30			180	•		
	10-			160			
					-		
	0ct13/23			0ct13/23			
				8 2 100	Abnormal		
	Non-ferrous Meta	ls					
	copper			80	1		
	6			60			
	4			40			
	2			20			
				0			
	0ct13/23			0ct13/23	0ct13/23		0ct13/23
	Viscosity @ 40°C			-	് Acid Number		0
	260 Abnormal			<u> </u>			
	240 - Base			5 0.60			
(40°C	220 - Base			0.80 0.60 0.60 0.40 0.40 0.20 Void Muther			
St	200 Abnormal			- n N 0 20			
				- Acid			
	1804						50
	0ct13/23			0ct13/23	0ct13/23		Det13/23
CALA Laboratory	: WearCheck - C8-11						er Cliff Smelte
Sample No.		Received Diagnosed		Oct 2023 Oct 2023	COPPER CL		DUSE, 155 BALSAM ST PER CLIFF, ON
lah Numbar		LUNCHOSEC		11/1/3		UUPP	LD ULIFF. UP
so 17025:2017 Lab Number							
o 17025:2017 Lab Number		Diagnostic		s Davis			CA P0M 1N cynthe Gelina

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Validity of results and interpretation are based on the sample and information as supplied.

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