

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

401 CRANE AUX HOIST

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

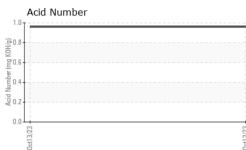
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

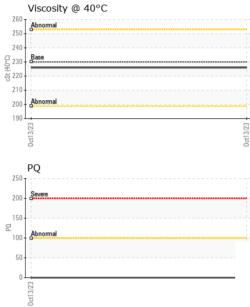
SAMPLE INFORM		method	limit/base	current	history1	history2
		Client Info	mmbase	WC0716520		
Sample Number Sample Date		Client Info		13 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed	1113	Client Info		Not Changd		
Sample Status				NORMAL		
			l'actifica e c	-		history O
WEAR METALS		method	limit/base		history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)		19		
Chromium	ppm	ASTM D5185(m)	>15	0		
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)		<1		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		2		
Calcium	ppm	ASTM D5185(m)		6		
Phosphorus	ppm	ASTM D5185(m)		404		
Zinc	ppm	ASTM D5185(m)		8		
Sulfur	ppm	ASTM D5185(m)		4993		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	10		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	2		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.96		



OIL ANALYSIS REPORT

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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	VLITE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
0ct13/23	Appearance	scalar	Visual*	NORML	NORML		
0 ct	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	230	226		
	SAMPLE IMAGES	3	method	limit/base	current	history1	history2
0ct13/23 -	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
	Ferrous Alloys			220	PQ		
	20 iron			220	C		
	15 - excession chromium			200	- Severe		
Edd	10			180)		
	5			160	•		
				140)+		
	0ct13/23			0ct13/23			
	00			ර ස 100	Abnormal		
	Non-ferrous Metals	S					
	copper			80) +		
_	6			60	+		
Edd	4			40	•		
	2			20)+		
	0ct13/23			0ct13/23	0ct13/23		
	 Viscosity @ 40°C			0	ة Acid Number		Ċ
2	60 Abnormal			, €1.0			
	40 Base				•		
(C) (40°C)	20			E_0.6	; -		
55	00 - Abnormal			(B)HOX WHOX WHOX WHOX WHOX WHOX WHOX WHOX W	+		
				U Pione	1		
1	80) 		5
	0ct13/23			0ct13/23	0ct13/23		C//C1440
Accredited Unique Number	: 02591189	Received Diagnose Diagnosti	: 23 (d : 25 (cian : We	Oct 2023 Oct 2023 s Davis			USE, 155 BALSAM S ER CLIFF, OI CA P0M 1N cynthe Gelina

Report Id: INCOCCSMR [WCAMIS] 02591189 (Generated: 10/25/2023 11:10:32) Rev: 1

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Contact/Location: Jacynthe Gelinas - INCOCCSMR