

OIL ANALYSIS REPORT



Machine Id **10 MILL** Component Feed Trunnion Bearing Fluid SHELL OMALA S2 GX 320 (--- 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898805		
Sample Date		Client Info		24 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>20	16		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>20	<1		
Copper	ppm	ASTM D5185(m)	>20	<1		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		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)	6.2	<1		
Barium	ppm	ASTM D5185(m)	0.0	<1		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	0	1		
Calcium	ppm	ASTM D5185(m)	0.0	13		
Phosphorus	ppm	ASTM D5185(m)	290	227		
Zinc	ppm	ASTM D5185(m)	3.8	19		
Sulfur	ppm	ASTM D5185(m)	8167	7342		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.43		



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Acid Number		VISUAL		method	limit/base	current	history1	history2
		White Metal	scalar	Visual*	NONE	NONE		
40 -		Yellow Metal	scalar	Visual*	NONE	NONE		
30 +		Precipitate	scalar	Visual*	NONE	NONE		
20 -		Silt	scalar	Visual*	NONE	NONE		
10-		Debris	scalar	Visual*	NONE	NONE		
		Sand/Dirt	scalar	Visual*	NONE	NONE		
Jun24/24	Jun24/24	Appearance	scalar	Visual*	NORML	NORML		
Jun2	Jun2	Odor	scalar	Visual*	NORML	NORML		
Viscosity @ 40°C		Emulsified Water	scalar	Visual*	>2	NEG		
.0 .		Free Water	scalar	Visual*		NEG		
Abnormal		FLUID PROPER	TIES	method	limit/base	current	history1	history2
Base		Visc @ 40°C	cSt	ASTM D7279(m)	320	318		
		SAMPLE IMAGE		method	limit/base	current	history1	history2
]+		SAMPLE IMAGE	.0	methou		Current	TIIStOTYT	1115101 y2
Abnormal	24	Color					no image	no imago
Jun 24/24	Jun24/24	Color					nonnage	no image
PQ								
		Bottom				(8)	no image	no image
Severe		Dottom					nomago	no imago
		GRAPHS						
Abnormal		Ferrous Alloys				PQ		
		²⁰ T			220			
		15 - iron			200	Severe		
Jun 24/24	VC/VC	E 10			180			
Jun2	1							
		5			160			
					* 140			
		Jun24/24			124/24 Da			
		⊸ Non-ferrous Meta	ls		ے ۔ 100	Abnormal		
		¹⁰ T			80			
		8 - copper			60			
		E 6			40			
		4						
					20			
		Jun24/24			9/24	/24		
		Jun			Jun24/24	Jun 24/24		
		Viscosity @ 40°C				Acid Number		
		360 Abnormal			(B/HOX 0.40	Τ,		
	õ	340 -			⁵ 0.40	-		
	(40°C	320 - Base			ຍິັ 0.30 ສ			
	Š	300			4 0.20 Mrm 0.20 Vin 0.10 Vin 0.00			
		Abnormal			F 0.10			
					4/24	4/24		
		Jun24/24			Jun24/24	Jun24/24		
So 17025:2017 Accredited Laboratory	Sample No. : Lab Number : Unique Number : Test Package :	: 5802546 : IND 2	Rece Teste Diagr	ived : 02 ed : 04 nosed : 04	2 Jul 2024 4 Jul 2024 I Jul 2024 - Kevi		MTW (Mill,T COPP Contact	ER CLIFF, (CA P0M 1 : Guy Gauth
To discuss this	sample report, c	: IND 2 contact Customer Serv of accreditation, (m) n				nal lab.	guy.gaut	: Guy Gau nier@vale. (705)682-5

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