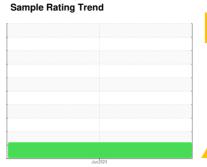


OIL ANALYSIS REPORT







Machine Id 8 MILL

Feed Trunnion Bearing

SHELL OMALA S2 GX 320 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

Lead and antimony ppm levels are abnormal. Bearing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

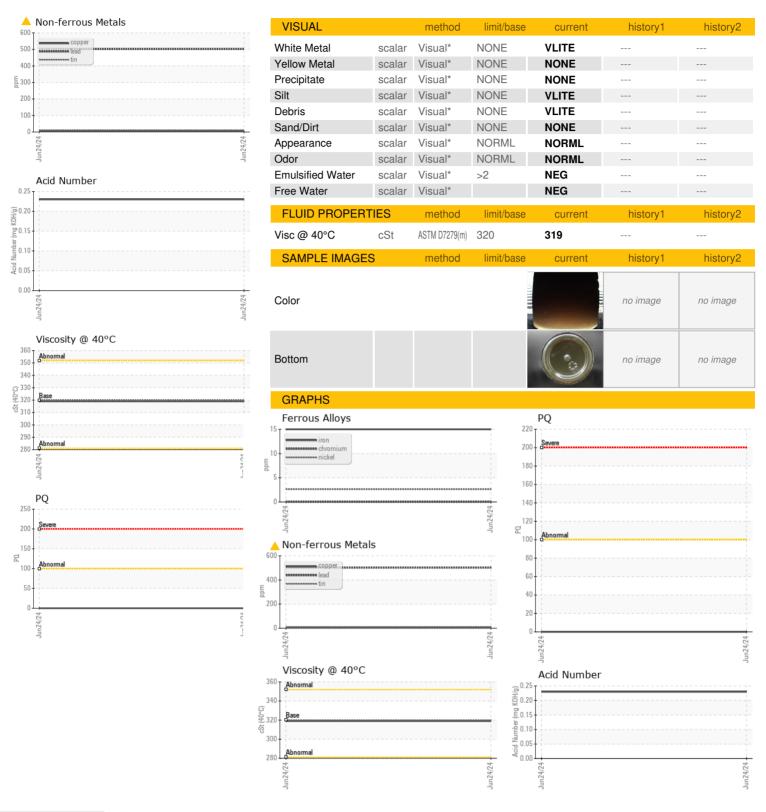
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898807		
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				ABNORMAL		
CONTAMINATION	N	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	15		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	3		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	4		
Lead	ppm	ASTM D5185(m)	>20	<u> </u>		
Copper	ppm	ASTM D5185(m)	>20	4		
Tin	ppm	ASTM D5185(m)	>20	11		
Antimony	ppm	ASTM D5185(m)		<u>^</u> 26		
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	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	0	4		
Calcium	ppm	ASTM D5185(m)	0.0	9		
Phosphorus	ppm	ASTM D5185(m)	290	194		
Zinc	ppm	ASTM D5185(m)	3.8	21		
Sulfur	ppm	ASTM D5185(m)	8167	7193		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	8		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	<1		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.23		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0898807

: 02645009 Unique Number : 5802548

Test Package : IND 2 (Additional Tests: TAN Man)

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

Received **Tested** Diagnosed

: 02 Jul 2024 : 03 Jul 2024

: 04 Jul 2024 - Kevin Marson

Contact: Guy Gauthier guy.gauthier@vale.com T: (705)682-5646

F: (705)682-6273

Vale - Clarabelle Mill

COPPER CLIFF, ON

CA P0M 1N0

MTW (Mill, Tailings & Water)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Report Id: INCOCLARA [WCAMIS] 02645009 (Generated: 07/04/2024 10:13:28) Rev: 1

Contact/Location: Guy Gauthier - INCOCLARA