

OIL ANALYSIS REPORT



TOTE 234

Component Oil

Fluid

SHELL OMALA S2 GX 68 (275 GAL)

DIAGNOSIS

A Recommendation

This is a baseline read-out on the submitted sample.

🛑 Wear

The iron level is noted.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

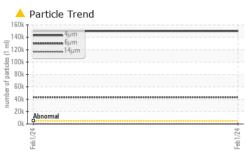
Fluid Condition

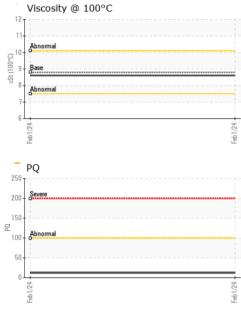
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

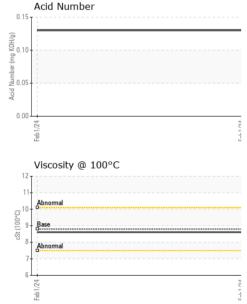
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TLC0001383A		
Sample Date		Client Info		01 Feb 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12		
Iron	nom	ASTM D0104 ASTM D5185m	>20	4 5		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m				
	ppm		>20	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	00	0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	3		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		7		
Calcium	ppm	ASTM D5185m		403		
Phosphorus	ppm	ASTM D5185m		271		
Zinc	ppm	ASTM D5185m		54		
Sulfur	ppm	ASTM D5185m		7313		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5		
Sodium	ppm	ASTM D5185m		16		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304		NEG		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	149887		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	55		
Particles >21µm		ASTM D7647	>40	3		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 24/23/13		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.13		
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Laboratory

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