



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
5061
Component
Circulating Gearbox
Fluid
SHELL OMALA 68 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system.
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Bearing and/or gear wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

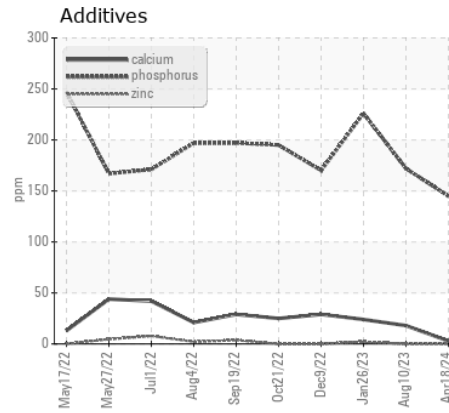
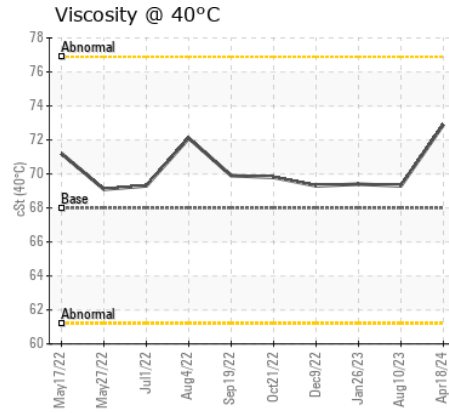
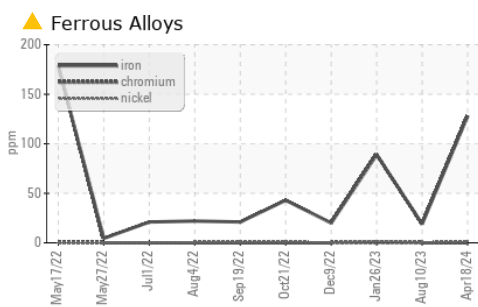
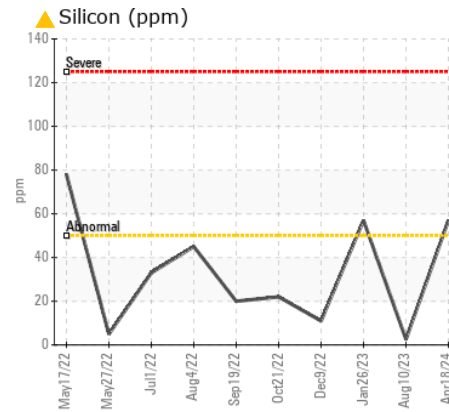
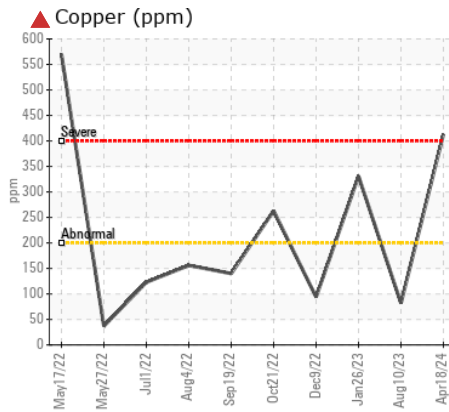
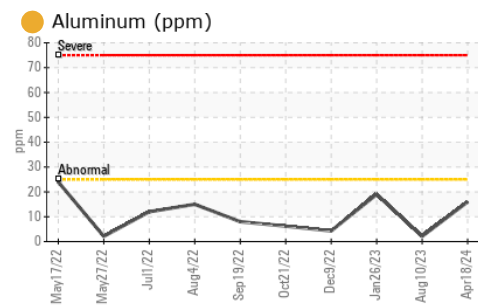
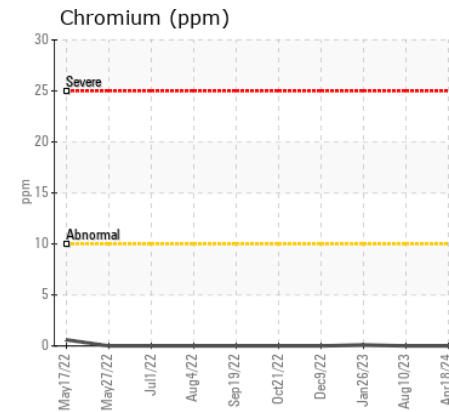
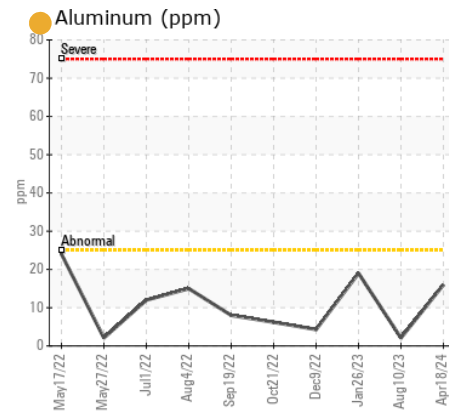
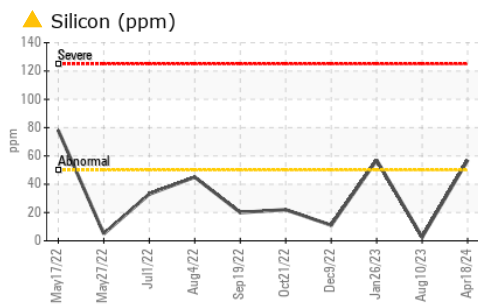
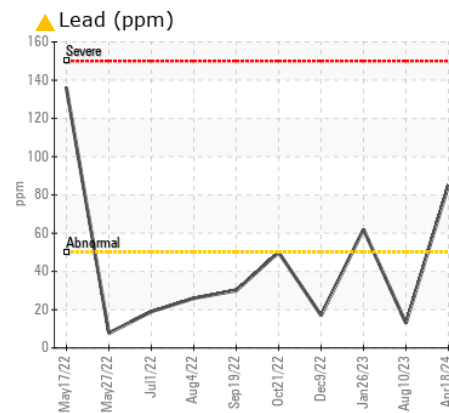
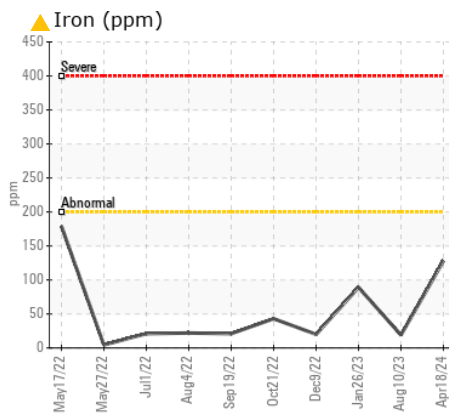
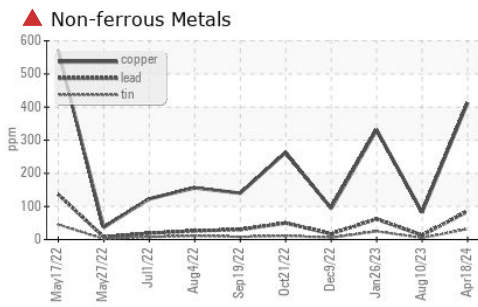
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0729164	WC0826918	WC0757474
Sample Date		Client Info		18 Apr 2024	10 Aug 2023	26 Jan 2023
Machine Age	hrs	Client Info		23088	21009	19513
Oil Age	hrs	Client Info		362	465	353
Filter Age	hrs	Client Info		362	465	353
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				SEVERE	NORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>200	▲ 128	19	89
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 16	2	● 19
Lead	ppm	ASTM D5185m	>50	▲ 85	13	▲ 62
Copper	ppm	ASTM D5185m	>200	▲ 413	82	▲ 331
Tin	ppm	ASTM D5185m	>10	▲ 32	5	▲ 25
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	▲ 57	3	▲ 57
Potassium	ppm	ASTM D5185m	>20	8	2	10
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		6	1	7
Boron	ppm	ASTM D5185m		6	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		0	1	1
Calcium	ppm	ASTM D5185m		3	18	24
Phosphorus	ppm	ASTM D5185m		145	172	226
Zinc	ppm	ASTM D5185m		<1	0	2
Sulfur	ppm	ASTM D5185m		6747	7731	7010
Visc @ 40°C	cSt	ASTM D445	68.0	72.9	69.3	69.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0729164
Lab Number : 06155385
Unique Number : 10990808
Test Package : MOB 1
Received : 19 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 24 Apr 2024 - Jonathan Hester

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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)