



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
MARGINAL
NORMAL

Machine Id
5074 BARREL

Component
Bearing

Fluid
SHELL OMALA S2 GX 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

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.

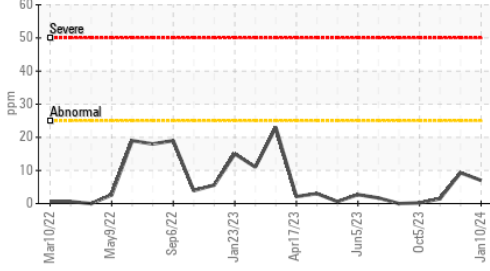
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0826931	WC0729160	WC0826927
Sample Date		Client Info		10 Jan 2024	02 Jan 2024	16 Oct 2023
Machine Age	hrs	Client Info		846	780	0
Oil Age	hrs	Client Info		670	604	102
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL

Iron	ppm	ASTM D5185m	>200	64	57	45
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m	>5	0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ 7	▲ 9	2
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>150	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

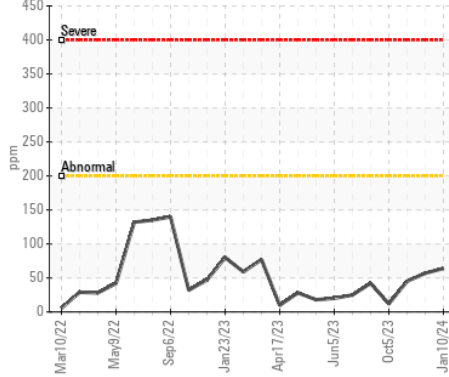
Silicon	ppm	ASTM D5185m	>25	▲ 44	▲ 45	14
Potassium	ppm	ASTM D5185m	>20	6	4	3
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		0	4	0
Boron	ppm	ASTM D5185m	6.2	0	2	3
Barium	ppm	ASTM D5185m	0.0	0	0	9
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	0	<1
Calcium	ppm	ASTM D5185m	0.0	3	10	2
Phosphorus	ppm	ASTM D5185m	290	317	312	313
Zinc	ppm	ASTM D5185m	3.8	0	0	<1
Sulfur	ppm	ASTM D5185m	8167	10740	10342	12128
Visc @ 40°C	cSt	ASTM D445	220	211.5	212	208

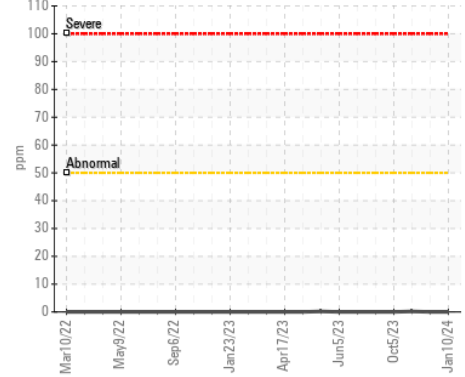
▲ Aluminum (ppm)



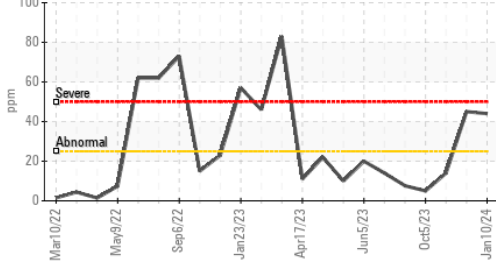
Iron (ppm)



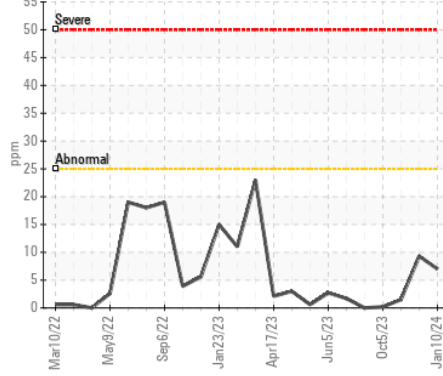
Lead (ppm)



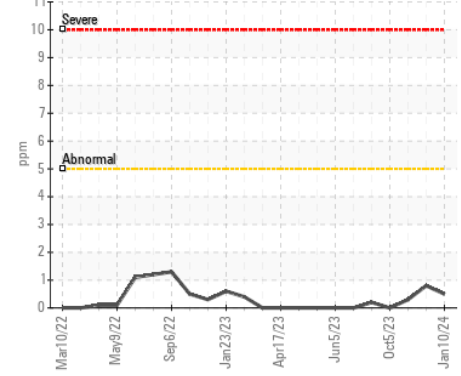
▲ Silicon (ppm)



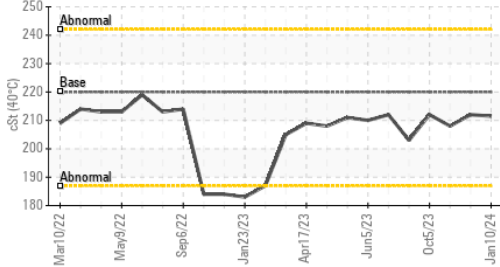
▲ Aluminum (ppm)



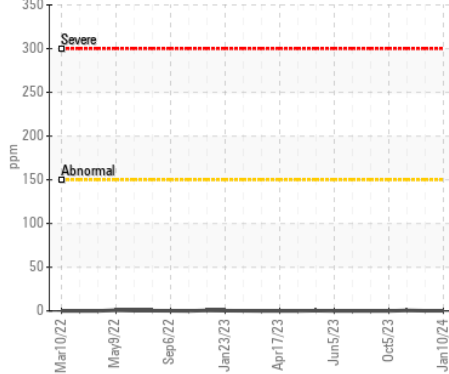
Chromium (ppm)



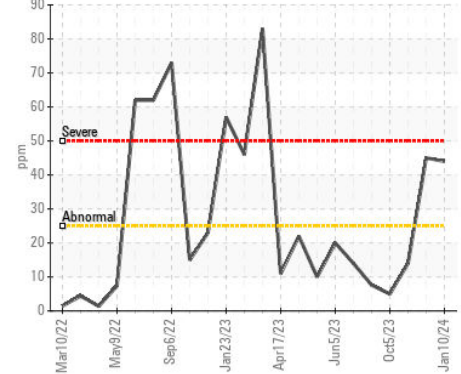
Viscosity @ 40°C



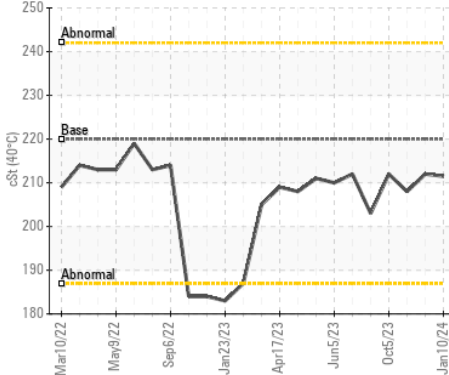
Copper (ppm)



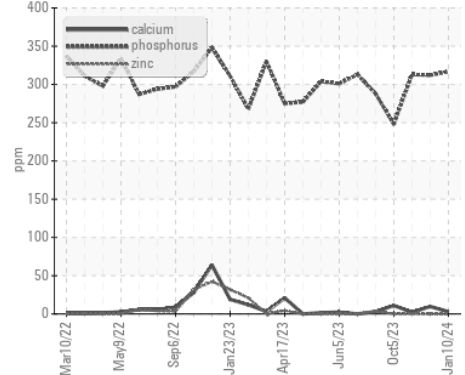
▲ Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0826931 Recieved : 11 Jan 2024
 Lab Number : 06058584 Diagnosed : 11 Jan 2024
 Unique Number : 10829966 Diagnostician : Doug Bogart
 Test Package : MOB 1

WAKE STONE CORPORATION-KNIGHTDALE
 PO BOX 190
 KNIGHTDALE, NC
 US 27545
 Contact: AL PARKER
 alparker@wakestonecorp.com
 T:
 F: (919)266-1149

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)