



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
NORMAL
NORMAL

Machine Id
NORDBERG 5022 CIRCULATING

Component
Gearbox

Fluid
SHELL OMALA 150 (110 GAL)

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

WEAR

An increase in the iron level is noted. Bearing and/or bushing wear is indicated.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

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

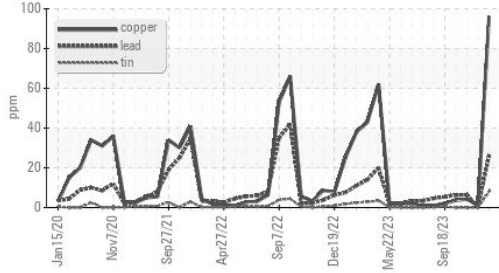
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0891239	WC0840648	WC0840634
Sample Date		Client Info		16 Jan 2024	18 Dec 2023	06 Nov 2023
Machine Age	hrs	Client Info		41301	41622	41268
Oil Age	hrs	Client Info		360	236	1391
Filter Age	hrs	Client Info		360	236	1391
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ATTENTION	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>200	▲ 105	5	55
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	10	<1	1
Lead	ppm	ASTM D5185m	>50	▲ 26	0	6
Copper	ppm	ASTM D5185m	>200	▲ 96	1	4
Tin	ppm	ASTM D5185m	>10	▲ 8	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

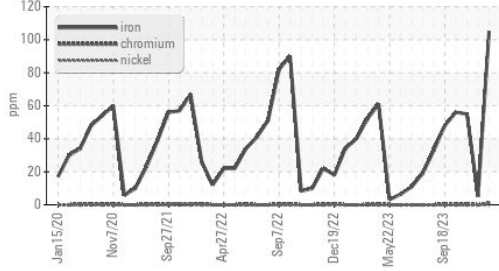
Silicon	ppm	ASTM D5185m	>50	32	<1	4
Potassium	ppm	ASTM D5185m	>20	4	0	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		4	0	0
Boron	ppm	ASTM D5185m	6.2	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	3	1	2
Calcium	ppm	ASTM D5185m	0.0	9	13	7
Phosphorus	ppm	ASTM D5185m	512	229	288	267
Zinc	ppm	ASTM D5185m	3.8	0	12	0
Sulfur	ppm	ASTM D5185m	8167	10007	9327	10020
Visc @ 40°C	cSt	ASTM D445	150	147	149	147

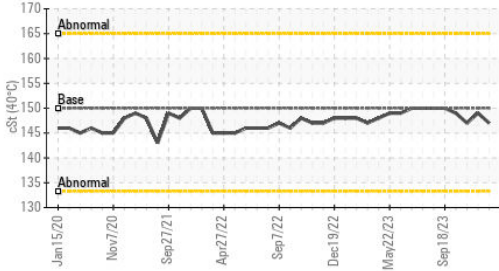
▲ Non-ferrous Metals



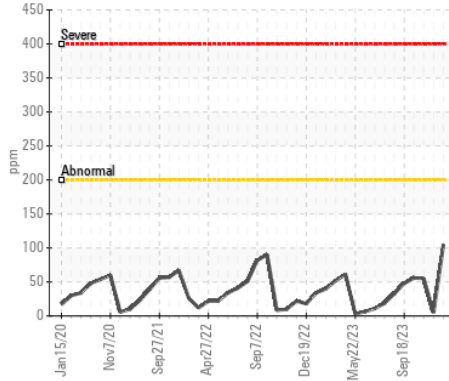
▲ Ferrous Alloys



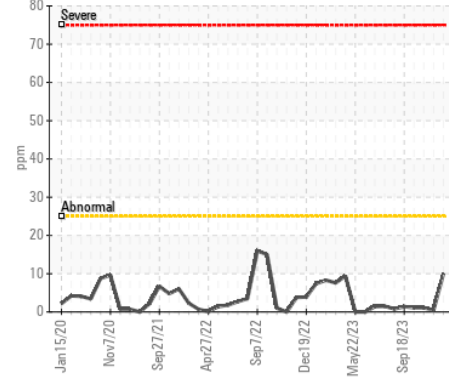
Viscosity @ 40°C



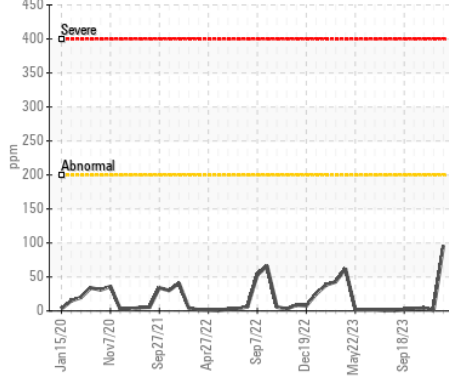
▲ Iron (ppm)



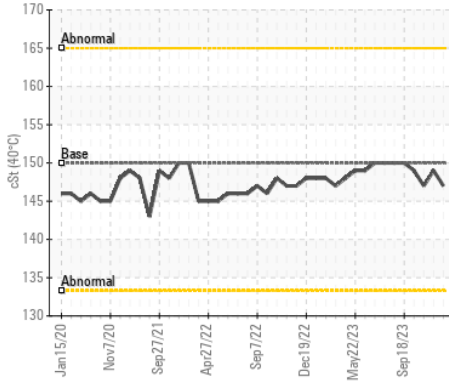
Aluminum (ppm)



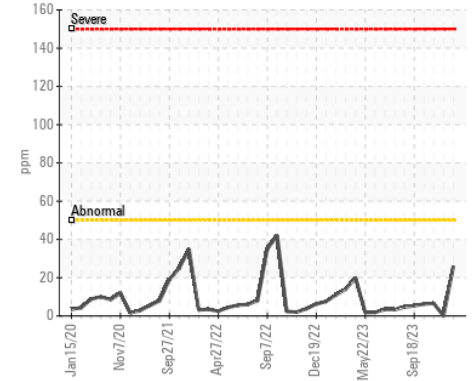
▲ Copper (ppm)



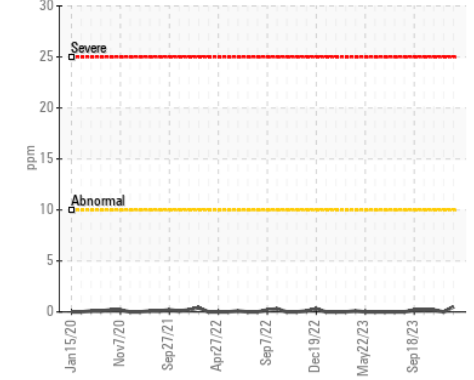
Viscosity @ 40°C



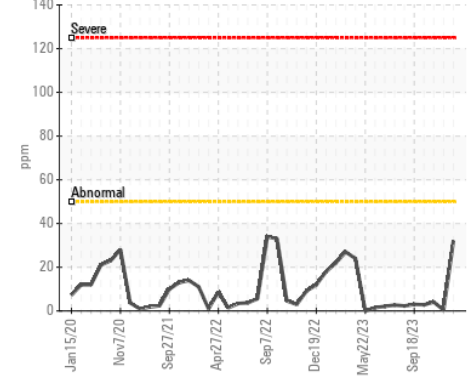
▲ Lead (ppm)



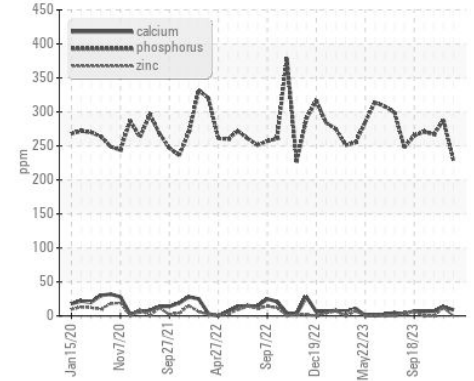
Chromium (ppm)



Silicon (ppm)



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0891239 **Received** : 30 Jan 2024
Lab Number : 06075164 **Diagnosed** : 01 Feb 2024
Unique Number : 10857255 **Diagnostician** : Don Baldrige
Test Package : MOB 1

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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)