



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[22-1710]

Machine Id

RTO BEARING LUBE OIL (S/N 2286)

Component

Plain Bearing

Fluid

CASTRIK SAE 30 NON DET (30 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0676255	WC0528873	WC0408703
Sample Date		Client Info		22 Nov 2022	11 Jun 2021	29 Oct 2020
Machine Age	mths	Client Info		238	220	0
Oil Age	mths	Client Info		238	220	213
Filter Age	mths	Client Info		238	220	213
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The copper level is abnormal. All other component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		7	---	---
Iron	ppm	ASTM D5185m	>20	6	10	11
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	0	0
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>20	▲ 24	▲ 27	▲ 27
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

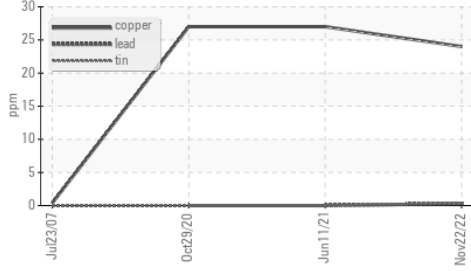
Silicon	ppm	ASTM D5185m	>15	3	2	2
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water	%	ASTM D6304	>2	0.114	---	---
ppm Water	ppm	ASTM D6304		1140	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	NEG	NEG

FLUID CONDITION

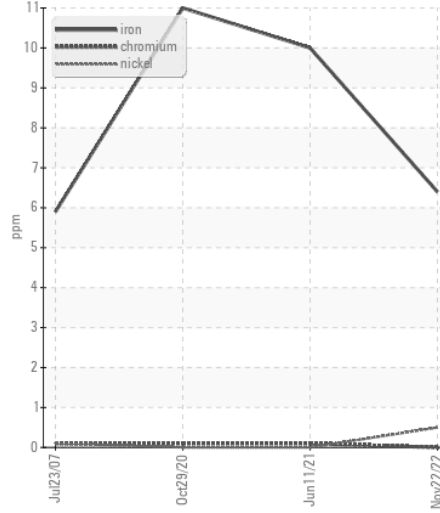
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		292	323	321
Boron	ppm	ASTM D5185m		11	17	15
Barium	ppm	ASTM D5185m		10	10	11
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		15	12	13
Calcium	ppm	ASTM D5185m		2334	2363	2398
Phosphorus	ppm	ASTM D5185m		285	283	278
Zinc	ppm	ASTM D5185m		155	157	168
Sulfur	ppm	ASTM D5185m		5714	4961	4110
Acid Number (AN)	mg KOH/g	ASTM D8045		0.12	0.214	0.227
Visc @ 40°C	cSt	ASTM D445		94.3	94.2	93.1

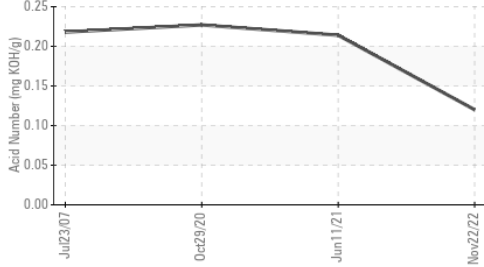
▲ Non-ferrous Metals



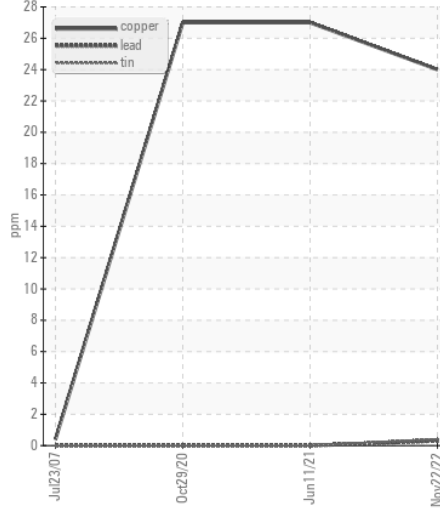
Ferrous Alloys



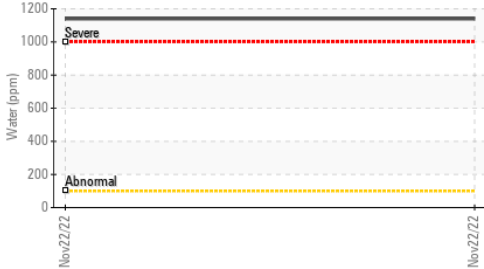
Acid Number



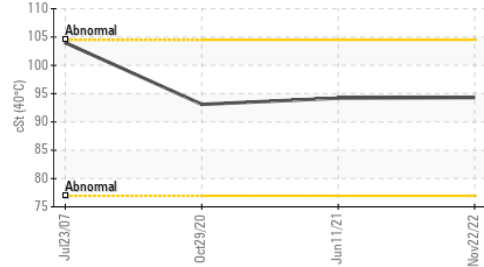
▲ Non-ferrous Metals



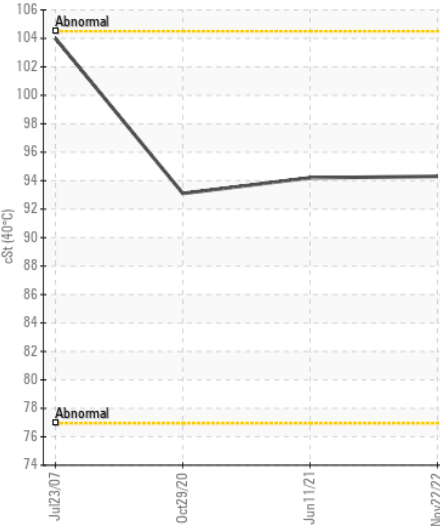
Water (KF)



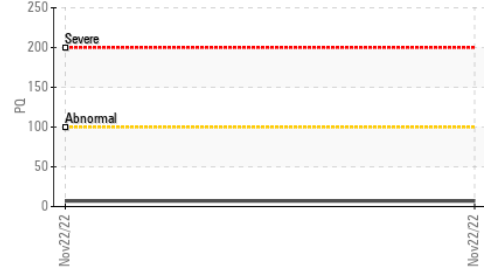
Viscosity @ 40°C



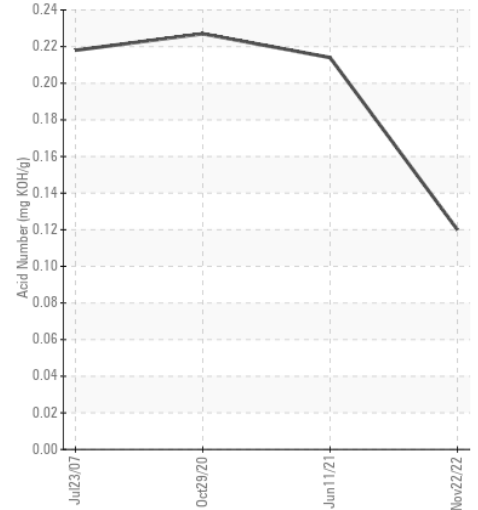
Viscosity @ 40°C



PQ



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0676255

Lab Number : 05704351

Unique Number : 10233925

Test Package : PLANT

Received : 28 Nov 2022

Tested : 30 Nov 2022

Diagnosed : 30 Nov 2022 - Jonathan Hester

VEOLIA NORTH AMERICA

190 M STREET EXTENSION

AGAWAM, MA

US 01001

Contact: Paul Orzechowski

paul.orzechowski@veolia.com

T: (413)575-3782

F: (413)732-7071

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)