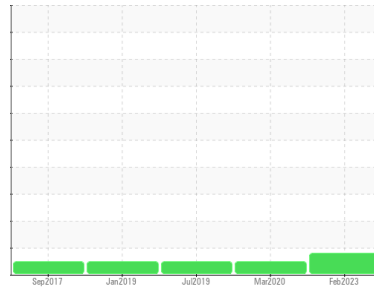




PROBLEM SUMMARY

Sample Rating Trend



ISO



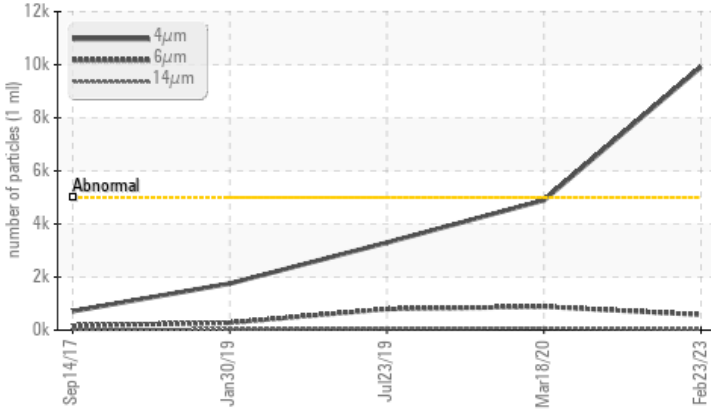
Machine Id
TOKIMEC 302

Component
Hydraulic System

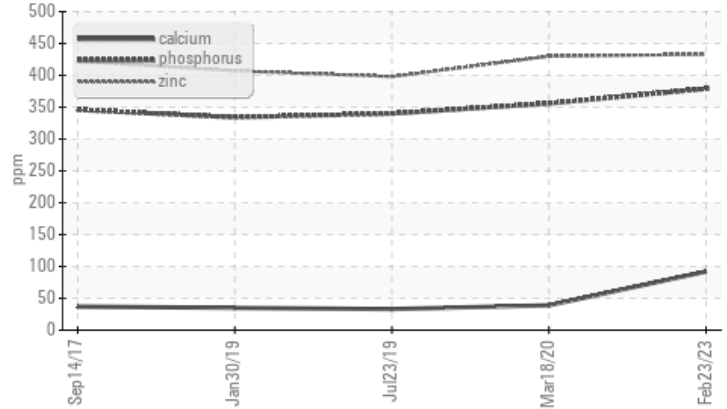
Fluid
SHELL TELLUS 46 (1250 LTR)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



Additives



RECOMMENDATION

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	NORMAL	NORMAL
Particles >4µm	ASTM D7647 >5000	▲ 9912	4893	3296
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/16/12	19/17/13	19/17/13

Customer Id: VUTWOO
Sample No.: WC0794615
Lab Number: 02542555
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	MISSED	Sep 12 2023	?	We recommend you service the filters on this component.
Check Fluid Source	MISSED	Sep 12 2023	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

18 Mar 2020 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



23 Jul 2019 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



30 Jan 2019 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

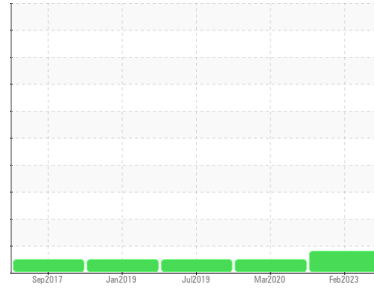
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
TOKIMEC 302
 Component
Hydraulic System
 Fluid
SHELL TELLUS 46 (1250 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0794615	WC0328558	WC985683
Sample Date	Client Info	23 Feb 2023	18 Mar 2020	23 Jul 2019
Machine Age	yrs Client Info	0	5	5
Oil Age	yrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	<1	<1	<1
Chromium ppm ASTM D5185(m)	>20	0	<1	0
Nickel ppm ASTM D5185(m)	>20	0	0	<1
Titanium ppm ASTM D5185(m)		0	<1	0
Silver ppm ASTM D5185(m)		0	0	0
Aluminum ppm ASTM D5185(m)	>20	<1	0	0
Lead ppm ASTM D5185(m)	>20	<1	<1	<1
Copper ppm ASTM D5185(m)	>20	4	6	5
Tin ppm ASTM D5185(m)	>20	<1	0	0
Antimony ppm ASTM D5185(m)		<1	<1	0
Vanadium ppm ASTM D5185(m)		0	0	0
Beryllium ppm ASTM D5185(m)		0	0	0
Cadmium ppm ASTM D5185(m)		0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	0.0	2	0	0
Barium ppm ASTM D5185(m)	0	0	0	0
Molybdenum ppm ASTM D5185(m)	0	<1	0	0
Manganese ppm ASTM D5185(m)		0	0	0
Magnesium ppm ASTM D5185(m)	11	5	<1	<1
Calcium ppm ASTM D5185(m)	35	92	39	33
Phosphorus ppm ASTM D5185(m)	266	379	356	340
Zinc ppm ASTM D5185(m)	276	433	430	398
Sulfur ppm ASTM D5185(m)	1847	846	757	736
Lithium ppm ASTM D5185(m)		<1	<1	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	0	0	<1
Sodium ppm ASTM D5185(m)		0	0	0
Potassium ppm ASTM D5185(m)	>20	0	<1	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	▲ 9912	4893	3296
Particles >6µm ASTM D7647	>1300	581	886	793
Particles >14µm ASTM D7647	>160	29	78	57
Particles >21µm ASTM D7647	>40	7	25	15
Particles >38µm ASTM D7647	>10	0	0	0
Particles >71µm ASTM D7647	>3	0	0	0
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 20/16/12	19/17/13	19/17/13

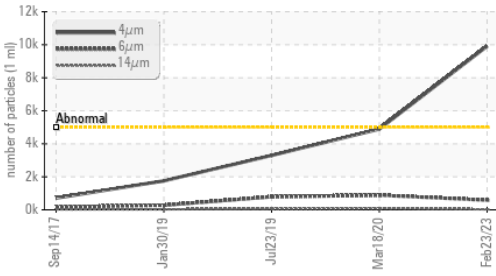
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*	0.36	0.23	0.411	0.363

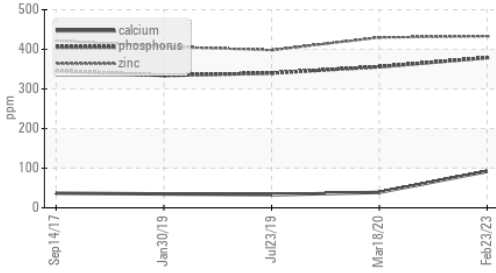


OIL ANALYSIS REPORT

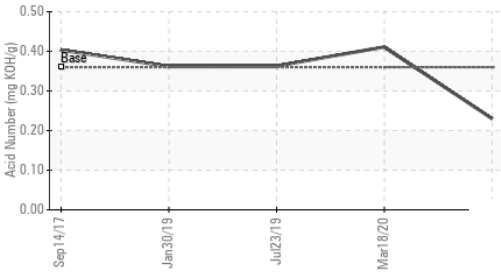
▲ Particle Trend



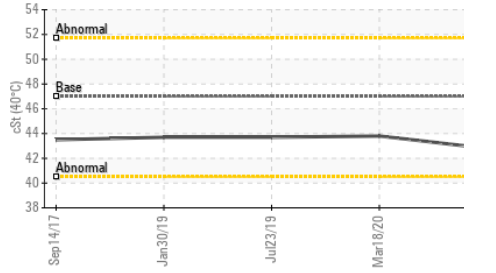
Additives



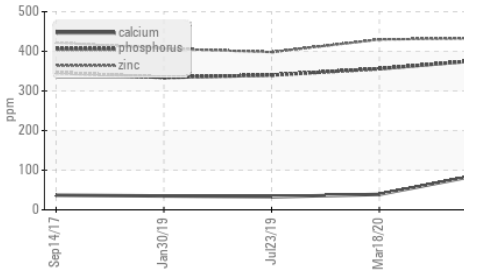
Acid Number



Viscosity @ 40°C



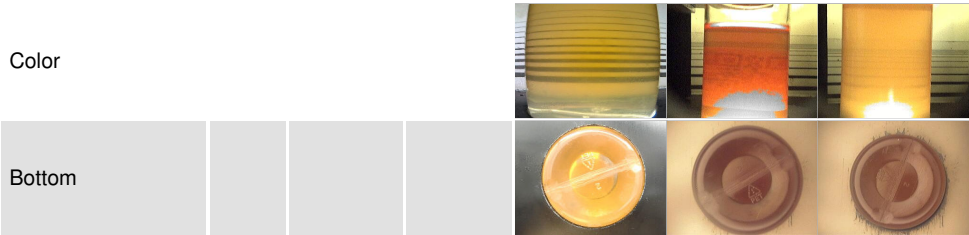
Additives



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

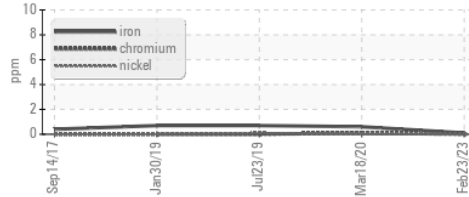
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.99	42.8	43.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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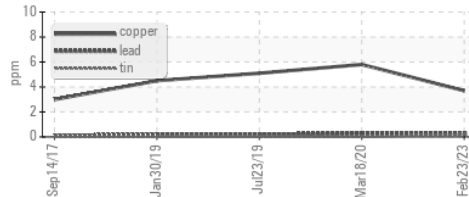


GRAPHS

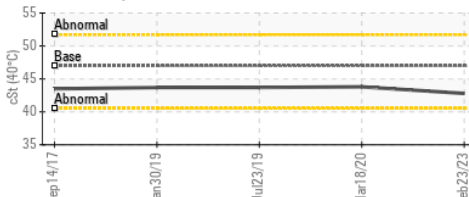
Ferrous Alloys



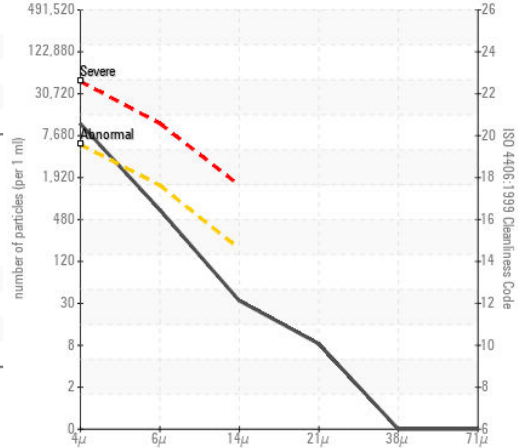
Non-ferrous Metals



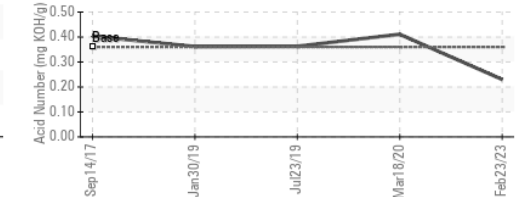
Viscosity @ 40°C



▲ Particle Count



Acid Number



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0794615
Lab Number : 02542555
Unique Number : 5539560
Test Package : IND 2

Received : 02 Mar 2023
Diagnosed : 03 Mar 2023
Diagnostician : Kevin Marson

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 WOODSTOCK, ON
 CA N4V 1C2

Contact: Andrew Keighley
 akeighley@vuteq.ca

T:
 F: (519)539-6385

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.