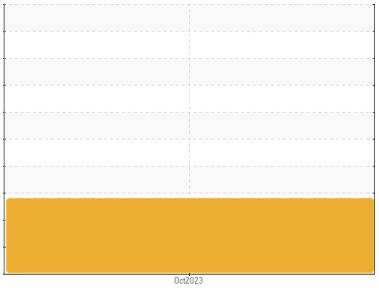
PROBLEM SUMMARY

Sample Rating Trend

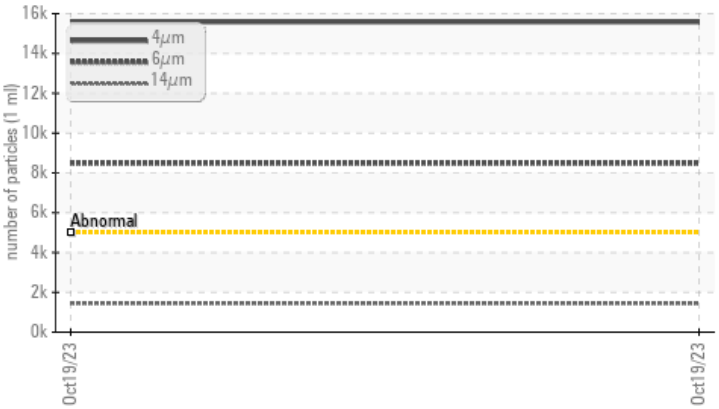


ISO

Area
Preparation-Prep NAR 650
Machine Id
[Preparation-Prep NAR 650] 360008005 - NAR 650 TRANCHEUSE CUTTER
Component
Hydraulic System
Fluid
SHELL TELLUS S2 MX 46 (--- LTR)

COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Particles >4µm		ASTM D7647	>5000	▲ **15578**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **8486**	---	---
Particles >14µm		ASTM D7647	>160	▲ **1444**	---	---
Particles >21µm		ASTM D7647	>40	▲ **486**	---	---
Particles >38µm		ASTM D7647	>10	▲ **75**	---	---
Particles >71µm		ASTM D7647	>3	▲ **8**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/20/18**	---	---

Customer Id: MICAND
Sample No.: TLC0001327
Lab Number: 05997909
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

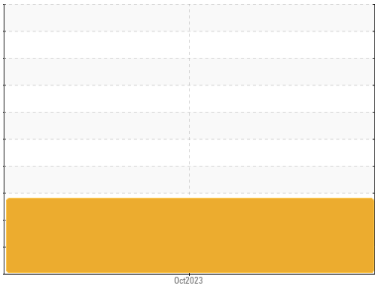
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Preparation-Prep NAR 650
Machine Id
[Preparation-Prep NAR 650] 360008005 - NAR 650 TRANCHEUSE CUTTER
Component
Hydraulic System
Fluid
SHELL TELLUS S2 MX 46 (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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		**TLC0001327**	---	---
Sample Date		Client Info		**19 Oct 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**9**	---	---
Chromium	ppm	ASTM D5185m	>20	**0**	---	---
Nickel	ppm	ASTM D5185m	>20	**0**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>20	**0**	---	---
Lead	ppm	ASTM D5185m	>20	**0**	---	---
Copper	ppm	ASTM D5185m	>20	**1**	---	---
Tin	ppm	ASTM D5185m	>20	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	---	---
Barium	ppm	ASTM D5185m	0	**0**	---	---
Molybdenum	ppm	ASTM D5185m	0	**0**	---	---
Manganese	ppm	ASTM D5185m	0	**<1**	---	---
Magnesium	ppm	ASTM D5185m	70	**51**	---	---
Calcium	ppm	ASTM D5185m	10	**13**	---	---
Phosphorus	ppm	ASTM D5185m	300	**238**	---	---
Zinc	ppm	ASTM D5185m	325	**298**	---	---
Sulfur	ppm	ASTM D5185m	665	**637**	---	---

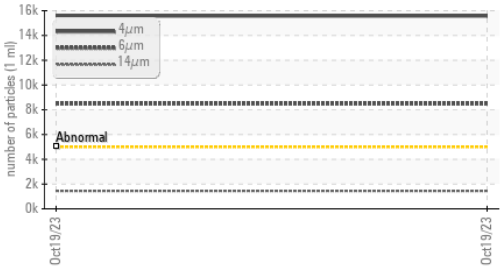
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	---	---
Sodium	ppm	ASTM D5185m		**<1**	---	---
Potassium	ppm	ASTM D5185m	>20	**0**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **15578**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **8486**	---	---
Particles >14µm		ASTM D7647	>160	▲ **1444**	---	---
Particles >21µm		ASTM D7647	>40	▲ **486**	---	---
Particles >38µm		ASTM D7647	>10	▲ **75**	---	---
Particles >71µm		ASTM D7647	>3	▲ **8**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/20/18**	---	---

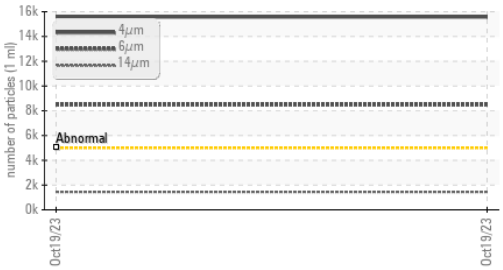
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.35	**0.27**	---	---

OIL ANALYSIS REPORT

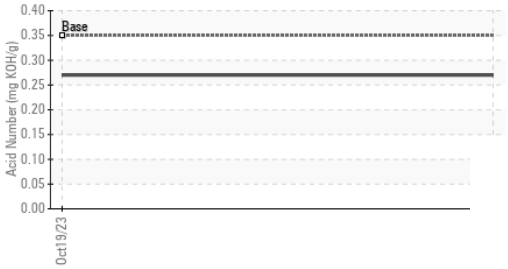
Particle Trend



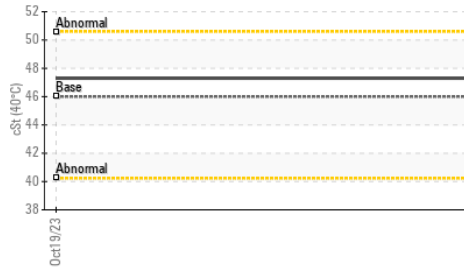
Particle Trend



Acid Number



Viscosity @ 40°C



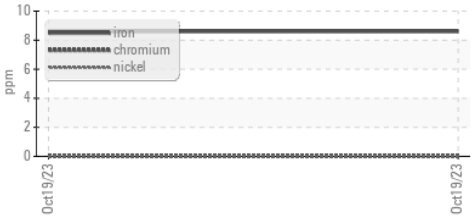
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.0	**47.3**	---	---

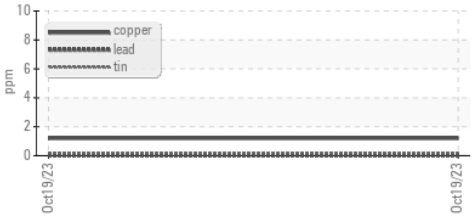
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

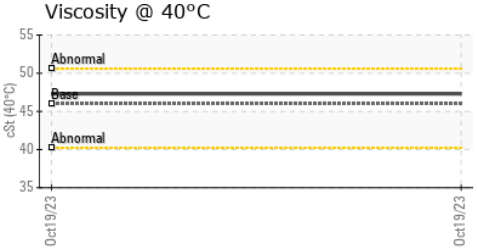
Ferrous Alloys



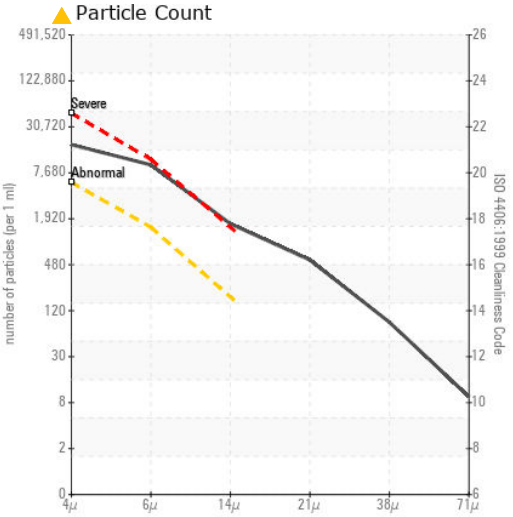
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLC0001327
Lab Number : 05997909
Unique Number : 10726269
Test Package : PLANT

Received : 03 Nov 2023
Diagnosed : 08 Nov 2023
Diagnostician : Jonathan Hester

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)

MICHELIN US 10
16 BIBB WAY
ANDERSON, SC
US 29626
Contact: TERRICK PRESLEY
terrick.presley@michelin.com
T: (803)761-8053
F:

Report Id: MICAND [WUSCAR] 05997909 (Generated: 11/08/2023 16:22:17) Rev: 1

Submitted By: DUSTY LOLLIS