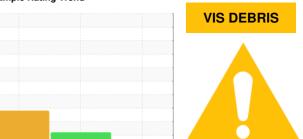


### **OIL ANALYSIS REPORT**

### Sample Rating Trend



Area

# Preparation-Prep NAR 650

[Preparation-Prep NAR 650] 360008005 - NAR 650 TRANCHEUSE CUTTER

Hydraulic System

SHELL TELLUS S2 MX 46 (--- LTR)

## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil.

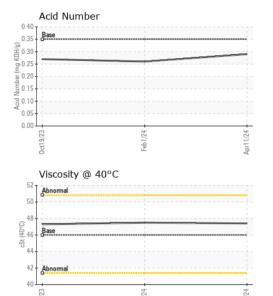
#### **Fluid Condition**

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

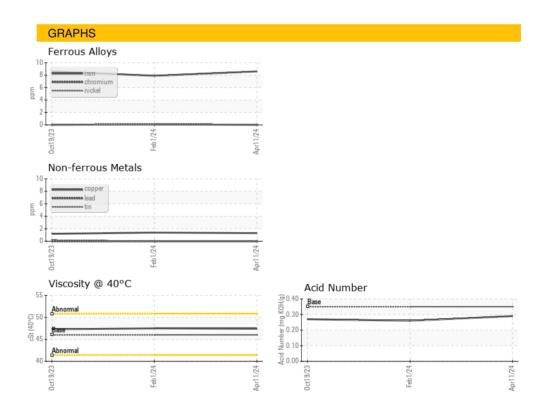
	USZULS MBEULY APIZULY						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		TLC0001770	TLC0001365	TLC0001327	
Sample Date		Client Info		11 Apr 2024	01 Feb 2024	19 Oct 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	9	8	9	
Chromium	ppm	ASTM D5185m	>20	0	<1	0	
Nickel	ppm	ASTM D5185m	>20	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>20	0	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	0	
Copper	ppm	ASTM D5185m	>20	1	1	1	
Tin	ppm	ASTM D5185m	>20	0	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	0	
Manganese	ppm	ASTM D5185m	0	0	0	<1	
Magnesium	ppm	ASTM D5185m	70	49	54	51	
Calcium	ppm	ASTM D5185m	10	12	15	13	
Phosphorus	ppm	ASTM D5185m	300	228	255	238	
Zinc	ppm	ASTM D5185m	325	274	320	298	
Sulfur	ppm	ASTM D5185m	665	684	692	637	
CONTAMINANTS	3	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1	
Sodium	ppm	ASTM D5185m		3	2	<1	
Potassium	ppm	ASTM D5185m	>20	6	0	0	
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000		<u> </u>	<u> </u>	
Particles >6µm		ASTM D7647	>1300		<u>▲</u> 54517	<u>▲</u> 8486	
Particles >14μm		ASTM D7647	>160		16	<u> </u>	
Particles >21µm		ASTM D7647	>40		5	<b>486</b>	
Particles >38µm		ASTM D7647	>10		0	<u>^</u> 75	
Particles >71μm		ASTM D7647	>3		0	<b>8</b>	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		<u>\$\text{\Delta}\$ 25/23/11</u>	<b>△</b> 21/20/18	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.35	0.29	0.26	0.27	



## **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.0	47.4	47.5	47.3
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					. 6.	100







Certificate 12367

Laboratory Sample No.

Test Package : PLANT

: TLC0001770 Lab Number : 06151941 Unique Number : 10982019

**Bottom** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024

**Tested** Diagnosed

: 19 Apr 2024 : 19 Apr 2024 - Don Baldridge **MICHELIN US 10** ANDERSON, SC

US 29626 Contact: TERRICK PRESLEY terrick.presley@michelin.com T: (803)761-8053

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)

Report Id: MICAND [WUSCAR] 06151941 (Generated: 04/19/2024 19:07:07) Rev: 1

Submitted By: DUSTY LOLLIS

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