

## **OIL ANALYSIS REPORT**

# MINING

## ME-588 JOHN DEERE 944K 1DW944KXCNL703692

**Front Left Final Drive** 

SHELL Spirax S4 CX 30 (--- GAL)

# Sample Rating Trend **WEAR**

## DIAGNOSIS

#### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated.

#### Contamination

There is no indication of any contamination in the

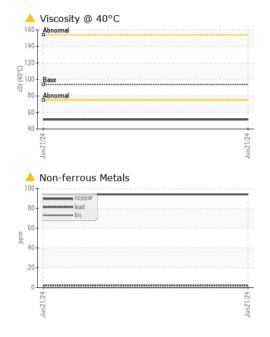
#### Fluid Condition

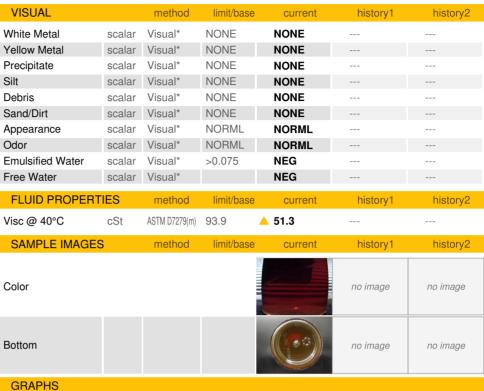
Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

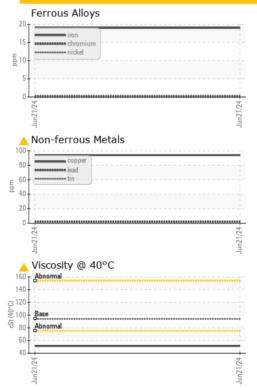
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0946267		
Sample Date		Client Info		21 Jun 2024		
Machine Age	hrs	Client Info		2184		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>750	19		
Chromium	ppm	ASTM D5185(m)	>9	0		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>40	<1		
Lead	ppm	ASTM D5185(m)	>15	2		
Copper	ppm	ASTM D5185(m)	>40	<u>^</u> 94		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		3		
Barium	ppm	ASTM D5185(m)		3		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		92		
Calcium	ppm	ASTM D5185(m)		3351		
Phosphorus	ppm	ASTM D5185(m)		1028		
Zinc	ppm	ASTM D5185(m)		1205		
Sulfur	ppm	ASTM D5185(m)		3167		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	41		
Sodium	ppm	ASTM D5185(m)	>51	3		
Potassium	ppm	ASTM D5185(m)	>20	<1		



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0946267 Lab Number : 02645949 Unique Number : 5811501 Test Package : CONST

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 05 Jul 2024

Received **Tested** : 05 Jul 2024 Diagnosed

: 05 Jul 2024 - Kevin Marson

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.

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