

## **OIL ANALYSIS REPORT**

# MINING

# ME-601 JOHN DEERE 944K 1DW944KSCNL703678

Front Right Final Drive

SHELL Spirax S4 CX 30 (--- GAL)

# Jul 2024

Sample Rating Trend



#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Woor

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

#### **Fluid Condition**

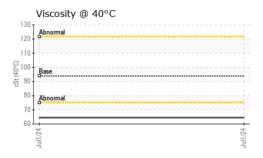
The condition of the oil is acceptable for the time in service.

				Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0944246		
Sample Date		Client Info		01 Jul 2024		
Machine Age	hrs	Client Info		9364		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>750	11		
Chromium	ppm	ASTM D5185m	>9	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>40	2		
Lead	ppm	ASTM D5185m	>15	<1		
Copper	ppm	ASTM D5185m	>40	16		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		68		
Calcium	ppm	ASTM D5185m		3377		
Phosphorus	ppm	ASTM D5185m		1063		
Zinc	ppm	ASTM D5185m		1185		
Sulfur	ppm	ASTM D5185m		3577		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	8		
Sodium	ppm	ASTM D5185m	>51	0		
Potassium	ppm	ASTM D5185m	>20	2		
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	>0.075	NEG		
Free Water	scalar	*Visual		NEG		
0:01:E0\ Dov: 1				Contact/La	ation, Drian Du	anall COVODE

Contact/Location: Brian Bunnell - COVORE

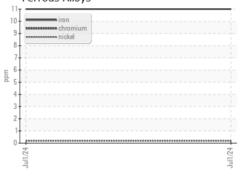


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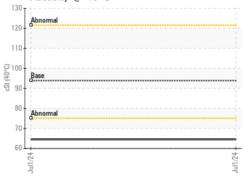
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C







Certificate 12367

Laboratory Sample No.

: WC0944246

Lab Number : 06236533 Unique Number : 11125367 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024

Tested : 16 Jul 2024

Diagnosed : 16 Jul 2024 - Wes Davis

**COVIA - OREGON - 004** 1446 DEVILS BACKBONE ROAD OREGON, IL

US 61061-0156 Contact: Brian Bunnell

brian.bunnell@coviacorp.com T: (815)677-8700

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)