

OIL ANALYSIS REPORT

Area MINING ME-601 JOHN DEERE 944K 1DW944KSCNL703678

Hydraulic System

SHELL Spirax S4 CX 10W (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

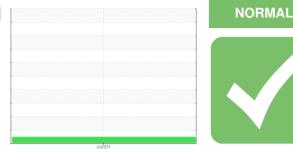
All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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





SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0944247		
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	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	8		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		31		
Calcium	ppm	ASTM D5185m		157		
Phosphorus	ppm	ASTM D5185m		102		
Zinc	ppm	ASTM D5185m		88		
Sulfur	ppm	ASTM D5185m		326		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3		
Sodium	ppm	ASTM D5185m		27		
Potassium	ppm	ASTM D5185m	>20	5		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2329		
Particles >6µm		ASTM D7647	>1300	69		
Particles >14µm		ASTM D7647	>160	9		
Particles >21µm		ASTM D7647		2		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/13/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.74		

Report Id: COVORE [WUSCAR] 06235842 (Generated: 07/16/2024 14:51:01) Rev: 1

Contact/Location: Brian Bunnell - COVORE Page 1 of 2

Sample Rating Trend



OIL ANALYSIS REPORT

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NONE

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NONE

NORML

NORML

>0.1

White Metal

Yellow Metal

Precipitate

Silt

Debris

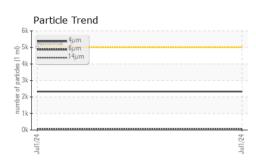
Odor

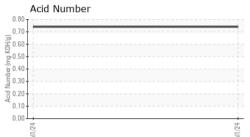
Sand/Dirt

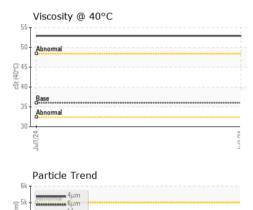
Appearance

Free Water

Emulsified Water





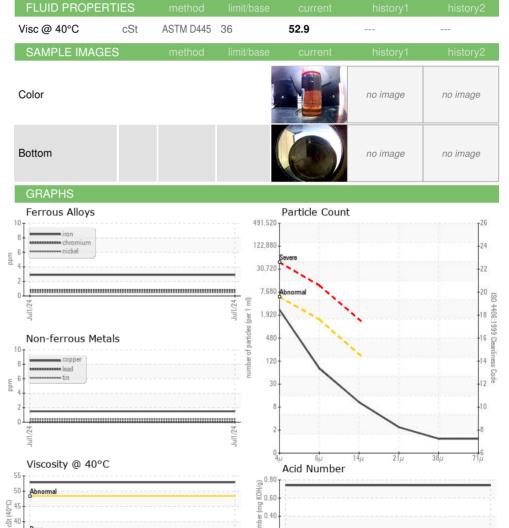


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0.20

0.00

Acid

lul1/24

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **COVIA - OREGON - 004** : WC0944247 Sample No. Received : 15 Jul 2024 1446 DEVILS BACKBONE ROAD Lab Number : 06235842 Tested : 16 Jul 2024 OREGON, IL Unique Number : 11124676 Diagnosed : 16 Jul 2024 - Don Baldridge US 61061-0156 Test Package : CONST Contact: Brian Bunnell Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. brian.bunnell@coviacorp.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (815)677-8700 П¢

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: Brian Bunnell - COVORE

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