

OIL ANALYSIS REPORT

MINING

ME-586 JOHN DEERE 944K 1DW944KXPNL703686

Hydraulic System

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

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

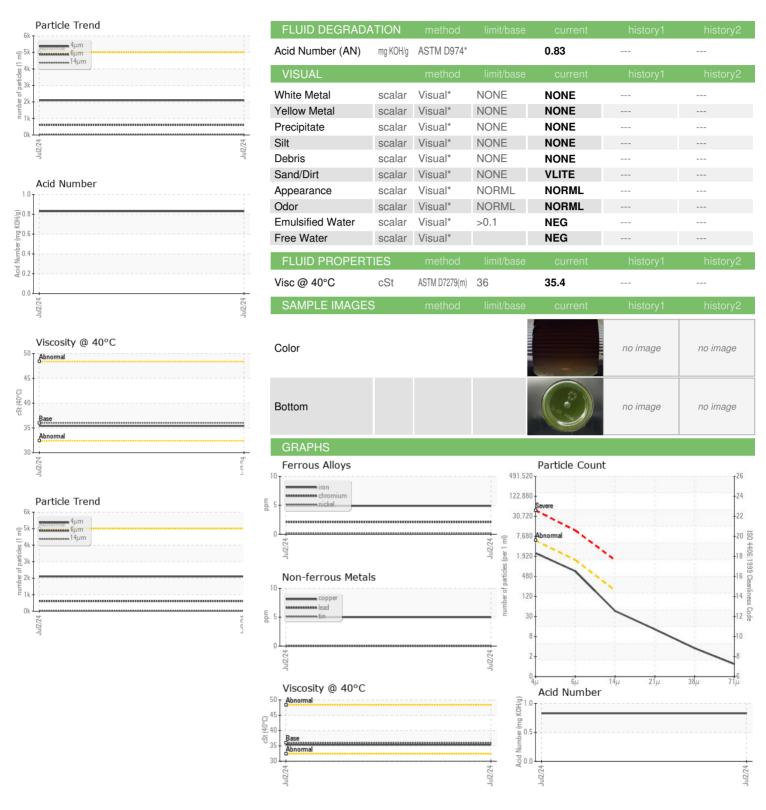
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0946239		
Sample Date		Client Info		02 Jul 2024		
Machine Age	hrs	Client Info		3191		
Oil Age	hrs	Client Info		3191		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	5		
Chromium	ppm	ASTM D5185(m)	>10	2		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>10	1		
Lead	ppm	ASTM D5185(m)	>10	0		
Copper	ppm	ASTM D5185(m)	>75	5		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)		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)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		<1		
Calcium	ppm	ASTM D5185(m)		86		
Phosphorus	ppm	ASTM D5185(m)		608		
Zinc	ppm	ASTM D5185(m)		807		
Sulfur	ppm	ASTM D5185(m)		1453		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	5		
Sodium	ppm	ASTM D5185(m)		6		
Potassium	ppm	ASTM D5185(m)	>20	3		
FLUID CLEANLIN	• •	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2100		
Particles >6μm		ASTM D7647	>1300	604		
Particles >14µm		ASTM D7647	>1600	39		
Particles >21µm		ASTM D7647		11		
Particles >38µm		ASTM D7647	>10	3		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12		
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Submitted By: Paul Laneville



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No. : WC0946239 Lab Number

Unique Number : 5811786 Test Package : CONST

Received : 08 Jul 2024 **Tested** : 09 Jul 2024 : 02646234 Diagnosed : 09 Jul 2024 - Wes Davis

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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