

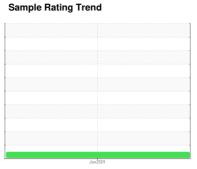
OIL ANALYSIS REPORT

MINING

ME-105 JOHN DEERE 844L 1DW844LXVNL715367

Component **Transmission**

SHELL Spirax S4 CX 30 (8 GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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

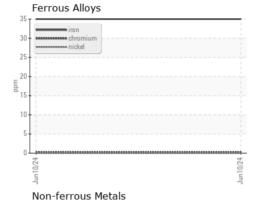
Oil Age hrs Client Info 500					Jun2024		
Sample Date Client Info 10 Jun 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 0 Jun 2024	Sample Number		Client Info		WC0942227		
Oil Age hrs Client Info 500			Client Info		10 Jun 2024		
Containing	Machine Age	hrs	Client Info		0		
CONTAMINATION	Oil Age	hrs	Client Info		500		
Water WC Method Imit/base current history1 history2	Oil Changed		Client Info		Not Changd		
Water WC Method >0.075 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >61 35 Chromium ppm ASTM D5185m >10 <1	Sample Status				NORMAL		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >61 35	CONTAMINATION	١	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.075	NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>61	35		
Titanium	Chromium	ppm	ASTM D5185m	>10	<1		
Silver	Nickel	ppm	ASTM D5185m		0		
Aluminum	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >100 7 Tin ppm ASTM D5185m >3 <1	Aluminum	ppm	ASTM D5185m	>20	2		
Tin	Lead	ppm	ASTM D5185m	>9	<1		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 3167 Calcium ppm ASTM D5185m 916 Phosphorus ppm ASTM D5185m 916 Zinc ppm ASTM D5185m 3608 Sulfur ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 0	Copper	ppm	ASTM D5185m	>100	7		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Mangaesium ppm ASTM D5185m 87 Calcium ppm ASTM D5185m 3167 Phosphorus ppm ASTM D5185m 916 Phosphorus ppm ASTM D5185m 916 Zinc ppm ASTM D5185m 3608 Sulfur ppm ASTM D5185m >21 6 Soliticon ppm ASTM D5185m >30	Tin	ppm	ASTM D5185m	>3	<1		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron	Cadmium	ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 87 Calcium ppm ASTM D5185m 3167 Phosphorus ppm ASTM D5185m 916 Zinc ppm ASTM D5185m 3608 Sulfur ppm ASTM D5185m 3608 Sulfur ppm ASTM D5185m >21 6 Sulfur ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 0 Potassium ppm ASTM D5185m >20 2 VISUAL method limit/base current history1 history2 White Metal scalar	Boron	ppm	ASTM D5185m		3		
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 87 Calcium ppm ASTM D5185m 3167 Phosphorus ppm ASTM D5185m 916 Zinc ppm ASTM D5185m 1176 Sulfur ppm ASTM D5185m 3608 Sulfur ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 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	Barium	ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m 87 Calcium ppm ASTM D5185m 3167 Phosphorus ppm ASTM D5185m 916 Zinc ppm ASTM D5185m 11776 Sulfur ppm ASTM D5185m 3608 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 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	Molybdenum	ppm	ASTM D5185m		<1		
Calcium ppm ASTM D5185m 3167 Phosphorus ppm ASTM D5185m 916 Zinc ppm ASTM D5185m 1176 Sulfur ppm ASTM D5185m 3608 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 0 Sodium ppm ASTM D5185m >20 2 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	Manganese	ppm	ASTM D5185m		0		
Phosphorus ppm ASTM D5185m 916 Zinc ppm ASTM D5185m 1176 Sulfur ppm ASTM D5185m 3608 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 0 Sodium ppm ASTM D5185m >30 0 Potassium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >30 0 Potassium ppm ASTM D5185m >30 0 Potassium ppm ASTM D5185m >20 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE	Magnesium	ppm	ASTM D5185m		87		
Zinc ppm ASTM D5185m 1176 Sulfur ppm ASTM D5185m 3608 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 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 </td <th>Calcium</th> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>3167</th> <td></td> <td></td>	Calcium	ppm	ASTM D5185m		3167		
Zinc ppm ASTM D5185m 1176 Sulfur ppm ASTM D5185m 3608 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 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 </td <th>Phosphorus</th> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>916</th> <td></td> <td></td>	Phosphorus	ppm	ASTM D5185m		916		
Sulfur ppm ASTM D5185m 3608 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 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			ASTM D5185m		1176		
Silicon ppm ASTM D5185m >21 6 Sodium ppm ASTM D5185m >30 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 NORML NORML Appearance scalar *Visual NORML NORML Godor scalar *Vis	Sulfur		ASTM D5185m		3608		
Sodium ppm ASTM D5185m >30 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 NORML NORML Appearance scalar *Visual NORML NORML Godor scalar *Visual NORML NORML Bull Scalar *V	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m >30 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 NORML NORML Appearance scalar *Visual NORML NORML Godor scalar *Visual NORML NORML Bull scalar *V	Silicon	ppm	ASTM D5185m	>21	6		
Potassium ppm ASTM D5185m >20 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual 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 NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.075 NEG	Sodium		ASTM D5185m	>30	0		
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 NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.075 NEG	Potassium		ASTM D5185m	>20	2		
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 NORM NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.075 NEG	VISUAL		method	limit/base	current	history1	history2
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	White Metal	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	Yellow Metal	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	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.075 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.075 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.075	NEG		
	Free Water	scalar	*Visual		NEG		

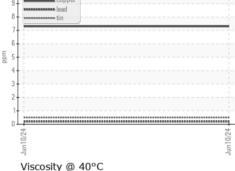


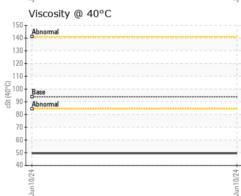
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	93.9	49.5		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image











Certificate 12367

Laboratory

Sample No. : WC0942227 Lab Number : 06208206

Unique Number : 11075667 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jun 2024

Tested : 14 Jun 2024 Diagnosed

: 14 Jun 2024 - Angela Borella

US 28363 Contact: Matt Wilkins matt.wilkins@coviacorp.com T: (919)815-5671

COVIA - MARSTON - 012

541 COGNAC ROAD

MARSTON, NC

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)