

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

MINING

ME-601 JOHN DEERE 944K 1DW944KSCNL703678

Front Left Final Drive

SHELL Spirax S4 CX 30 (--- 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 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		WC0944245		
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	V	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	34		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 4	history1	history2
	ppm		limit/base		,	
Boron		ASTM D5185m	limit/base	4		
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	4 0		
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	4 0 1		
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	4 0 1 <1		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	4 0 1 <1 94		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	4 0 1 <1 94 3287		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	4 0 1 <1 94 3287 1075		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	4 0 1 <1 94 3287 1075 1199		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		4 0 1 <1 94 3287 1075 1199 3411		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >75	4 0 1 <1 94 3287 1075 1199 3411		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >75	4 0 1 <1 94 3287 1075 1199 3411 current		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >75 >51	4 0 1 <1 94 3287 1075 1199 3411 current 13		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >75 >51 >20	4 0 1 <1 94 3287 1075 1199 3411 current 13 0 2		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >75 >51 >20 limit/base	4 0 1 <1 94 3287 1075 1199 3411 current 13 0 2		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >75 >51 >20 limit/base NONE NONE NONE	4 0 1 <1 94 3287 1075 1199 3411 current 13 0 2 current NONE		history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *Visual *Visual	limit/base >75 >51 >20 limit/base NONE NONE	4 0 1 <1 94 3287 1075 1199 3411 current 13 0 2 current NONE	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m METHOD ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	limit/base >75 >51 >20 limit/base NONE NONE NONE	4 0 1 <1 94 3287 1075 1199 3411 current 13 0 2 current NONE NONE NONE NONE NONE NONE		history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m METHOD ASTM D5185m METHOD *Visual *Visual *Visual	limit/base >75 >51 >20 limit/base NONE NONE NONE NONE	4 0 1 <1 94 3287 1075 1199 3411 current 13 0 2 current NONE NONE NONE	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m **ASTM D5185m ASTM D5185m **ASTM D5185m **Visual **Visual	limit/base >75 >51 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	4 0 1 <1 94 3287 1075 1199 3411 current 13 0 2 current NONE NONE NONE NONE NONE NONE NONE NON		history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m METHOD *VISUAL *VISUAL *VISUAL *VISUAL *VISUAL *VISUAL *VISUAL *VISUAL	limit/base >75 >51 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	4 0 1 <1 94 3287 1075 1199 3411 current 13 0 2 current NONE NONE NONE NONE NONE		history2 history2

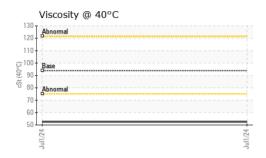
NEG

scalar *Visual

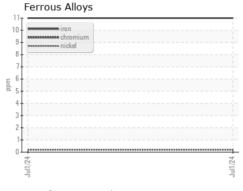
Contact/Location: Brian Bunnell - COVORE



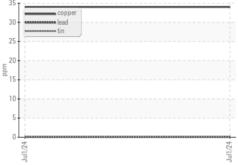
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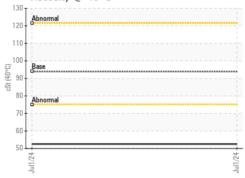




Non-ferrous Metals



Viscosity @ 40°C







Certificate 12367

Laboratory Sample No.

Lab Number : 06236532

Test Package : CONST

: WC0944245 Unique Number : 11125366

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 Tested : 16 Jul 2024

Diagnosed : 17 Jul 2024 - Sean Felton

1446 DEVILS BACKBONE ROAD OREGON, IL US 61061-0156

COVIA - OREGON - 004

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)