

## BOSCOBEL

## JOHN DEERE 944K M02-0912 1DW944KXCLF703065

**Diesel Engine** 

## CASTROL 15W40 (--- GAL)

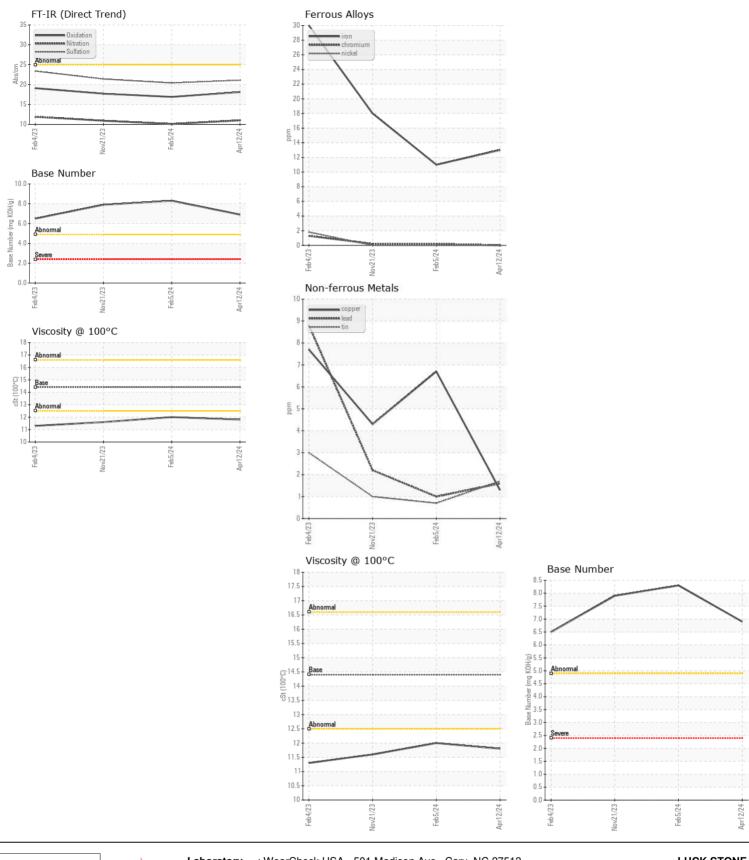
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0164755	JR0165936	JR0166035
	Sample Date		Client Info		12 Apr 2024	05 Feb 2024	21 Nov 2023
	Machine Age	hrs	Client Info		4573	4045	2186
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	500	3868
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	13	11	18
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		2	1	2
	Copper	ppm	ASTM D5185m		1	7	4
	Tin	ppm	ASTM D5185m		2	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>~22</u>	6	4	5
	Potassium	ppm	ASTM D5185m		0	3	5
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	3.5	4.2
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	, 0.12.	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624		11.0	10.1	10.9
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	20.4	21.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>406	2	0	0
	Boron	ppm	ASTM D5185m		28	37	23
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	5	5
	Molybdenum	ppm	ASTM D5185m		67	68	69
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		1110	1119	1131
	Calcium	ppm	ASTM D5185m		1035	967	963
	Phosphorus	ppm	ASTM D5185m		1080	917	889
	Zinc	ppm	ASTM D5185m		1297	1227	1273
	Sulfur	ppm	ASTM D5185m		3587	3190	3001
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	16.9	17.7
	Base Number (BN)				6.9	8.3	7.9
				4.4.4		10.0	A 44.0

Visc @ 100°C cSt ASTM D445 14.4

▲ 11.6

12.0

11.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 LUCK STONE Sample No. : JR0164755 Received 19380 RICHMOND TURNPIKE : 25 Apr 2024 Lab Number : 06160126 Tested : 26 Apr 2024 MILFORD, VA Unique Number : 10995549 Diagnosed : 26 Apr 2024 - Wes Davis US 22514 Test Package : CONST (Additional Tests: TBN) Contact: BRYAN MORRIS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bmorris@luckstone.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)400-3630 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JAMES MASON Page 2 of 2