



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 844L 1DW844LXANL715421
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T4 15W40 (--- GAL)

RECOMMENDATION

Contaminant level appears relatively stable with slight increase. Possible leak appears minor and is probably undetectable. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0185846	JR0185849	JR0185874
Sample Date		Client Info		09 May 2024	24 Apr 2024	09 Apr 2024
Machine Age	hrs	Client Info		3578	3331	3331
Oil Age	hrs	Client Info		466	375	215
Filter Age	hrs	Client Info		466	375	215
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	22	22	11
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	4	3
Lead	ppm	ASTM D5185m	>26	5	7	4
Copper	ppm	ASTM D5185m	>26	8	8	6
Tin	ppm	ASTM D5185m	>4	2	2	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

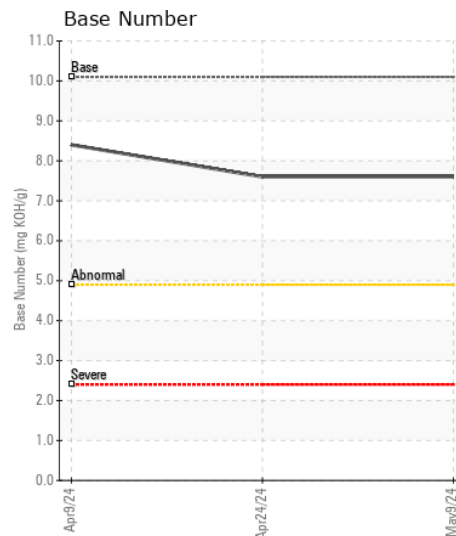
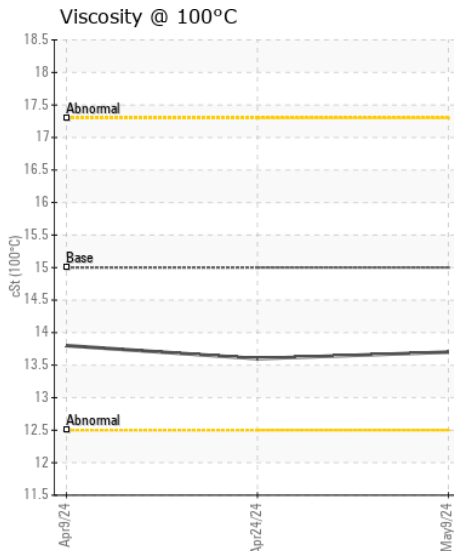
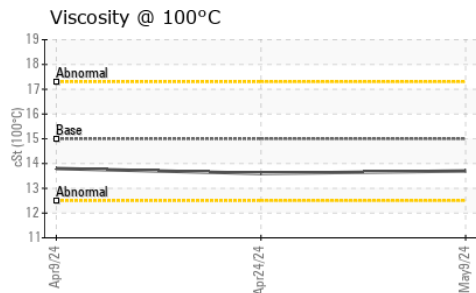
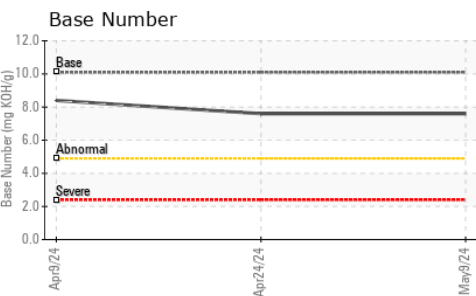
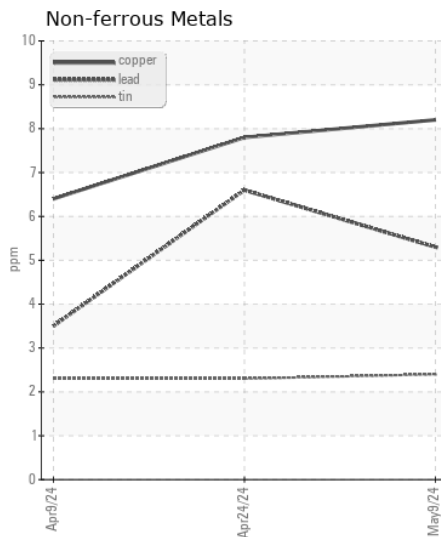
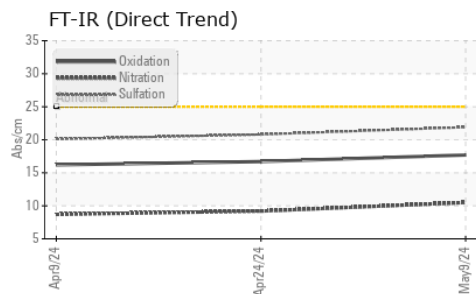
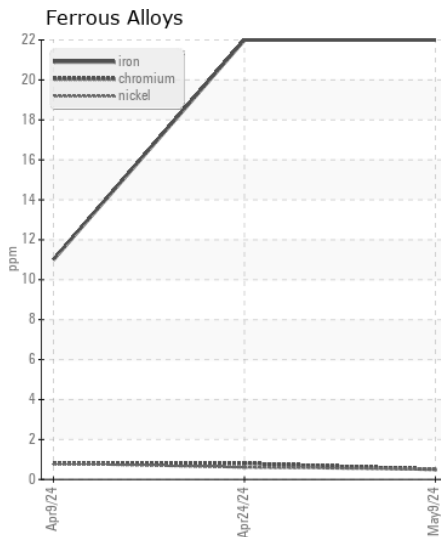
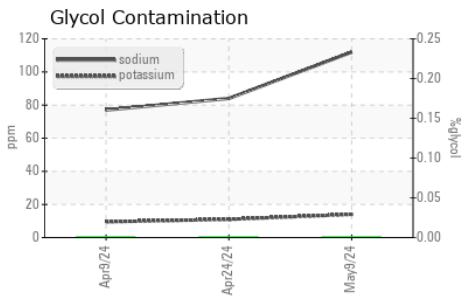
Sodium and/or potassium levels are high. Test for glycol is negative. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>22	9	8	7
Potassium	ppm	ASTM D5185m	>20	14	11	10
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		0.0	0.0	0.0
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.2	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	20.8	20.1
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	scalar	*Visual	>0.21	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	112	84	77
Boron	ppm	ASTM D5185m		4	4	5
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		67	72	67
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		912	978	1011
Calcium	ppm	ASTM D5185m		1103	1165	1221
Phosphorus	ppm	ASTM D5185m		1030	1072	1144
Zinc	ppm	ASTM D5185m		1257	1288	1361
Sulfur	ppm	ASTM D5185m		3157	3308	3598
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	16.7	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.6	7.6	8.4
Visc @ 100°C	cSt	ASTM D445	15	13.7	13.6	13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0185846 **Received** : 14 May 2024
Lab Number : 06178521 **Tested** : 15 May 2024
Unique Number : 11029847 **Diagnosed** : 15 May 2024 - Doug Bogart
Test Package : CONST (Additional Tests: Glycol, TBN)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: RALEIGH SHOP
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (919)614-2260

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

F: (919)779-5432