



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 9530E 1RW9530EKAE018434
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

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		JR0207019	JR0196329	JR0121831
Sample Date		Client Info		18 Jun 2024	11 Jan 2024	31 Mar 2022
Machine Age	hrs	Client Info		10035	9355	3442
Oil Age	hrs	Client Info		45	500	0
Filter Age	hrs	Client Info		45	500	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	14	15	4
Chromium	ppm	ASTM D5185m	>11	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		3	5	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	3	2	3
Lead	ppm	ASTM D5185m	>26	10	2	<1
Copper	ppm	ASTM D5185m	>26	6	7	1
Tin	ppm	ASTM D5185m	>4	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

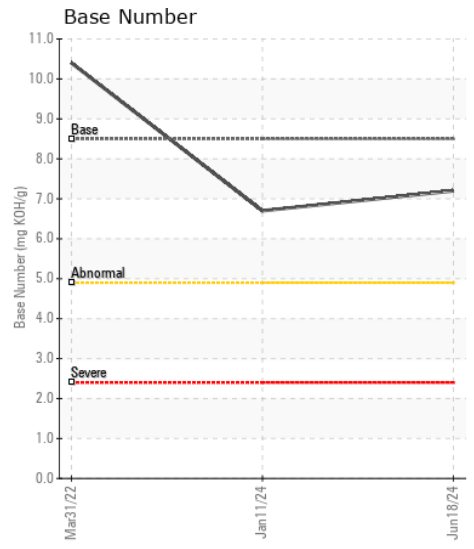
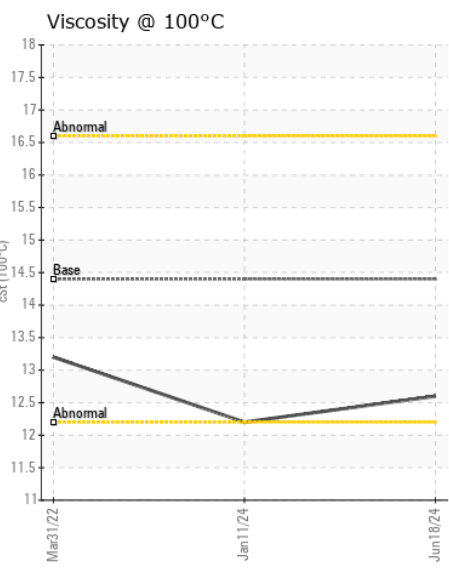
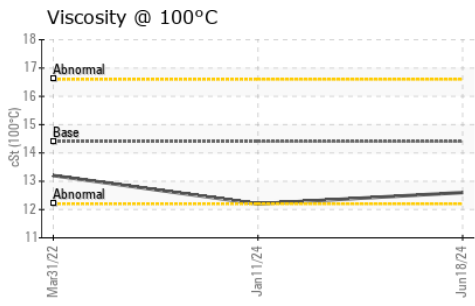
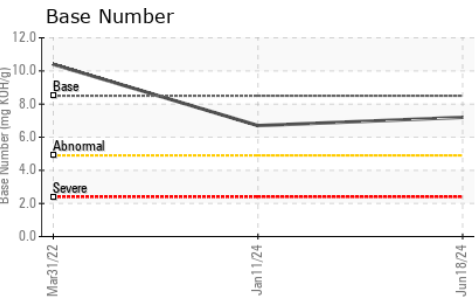
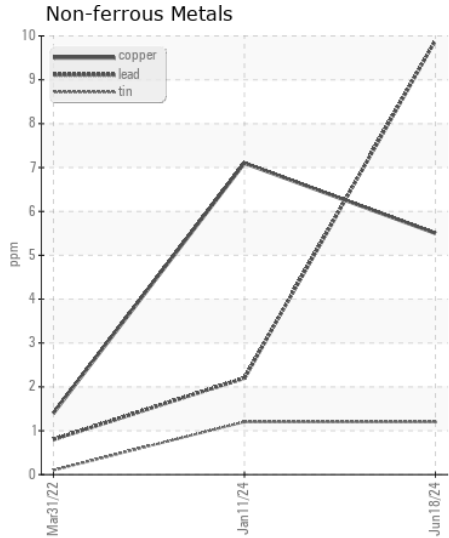
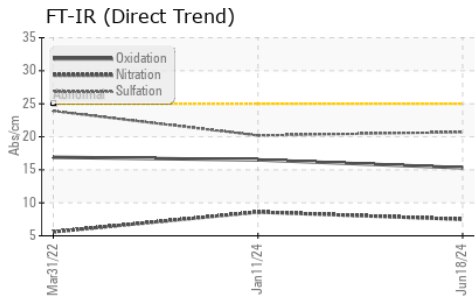
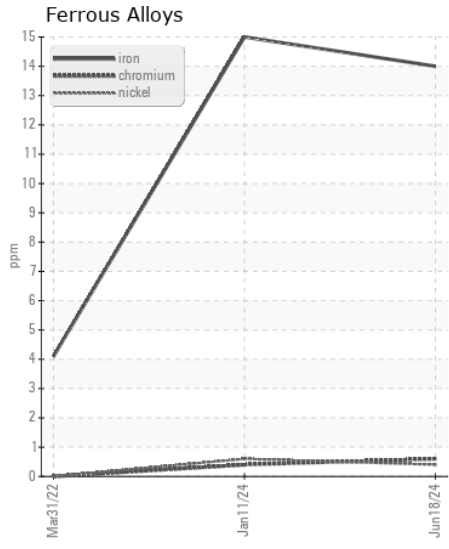
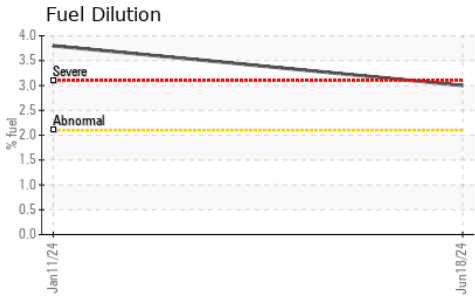
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>22	7	7	5
Potassium	ppm	ASTM D5185m	>20	3	3	0
Fuel	%	ASTM D3524	>2.1	▲ 3.0	▲ 3.8	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.6	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.2	23.9
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 oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	4	10	<1
Boron	ppm	ASTM D5185m	250	252	172	352
Barium	ppm	ASTM D5185m	10	<1	3	0
Molybdenum	ppm	ASTM D5185m	100	132	84	107
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	446	210	595
Calcium	ppm	ASTM D5185m	3000	1379	1816	1534
Phosphorus	ppm	ASTM D5185m	1150	896	1026	666
Zinc	ppm	ASTM D5185m	1350	1044	1180	709
Sulfur	ppm	ASTM D5185m	4250	3069	3887	2033
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	16.5	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.2	6.7	10.4
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	▲ 12.2	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207019 **Received** : 20 Jun 2024
Lab Number : 06215463 **Tested** : 24 Jun 2024
Unique Number : 11088327 **Diagnosed** : 24 Jun 2024 - Doug Bogart
Test Package : CONST (Additional Tests: PercentFuel, TBN)

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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)