



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
SENNEBOGEN 818 818.0.2555
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211839	JR0211551	JR0179931
Sample Date		Client Info		19 Jun 2024	22 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info		5593	5163	4558
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

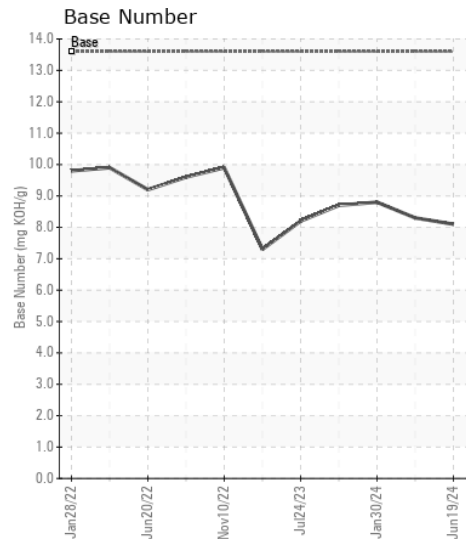
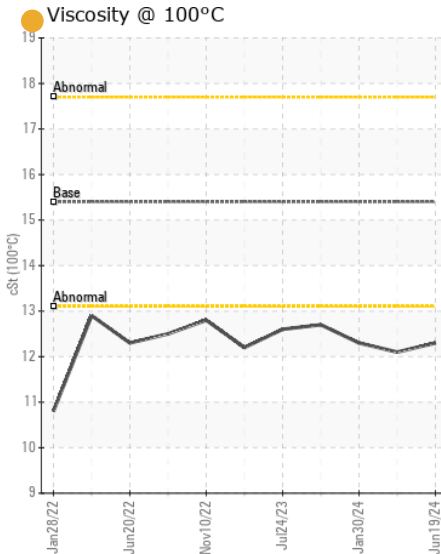
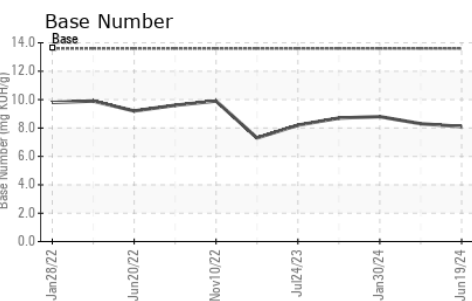
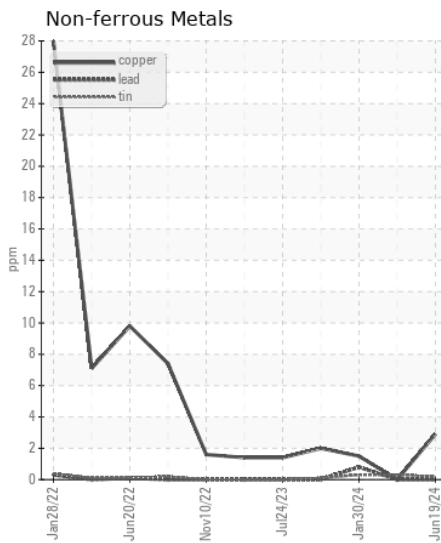
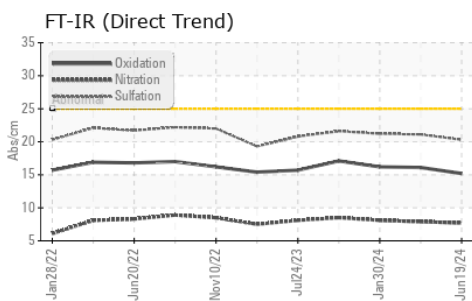
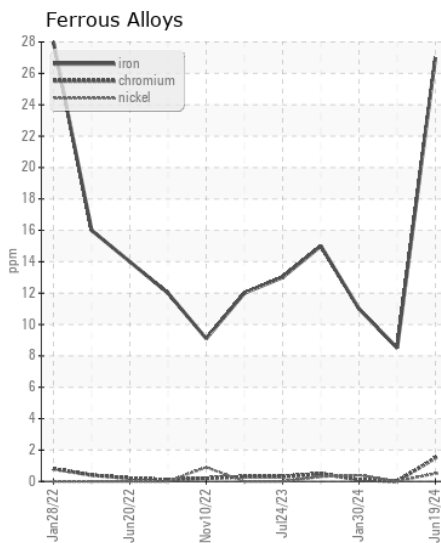
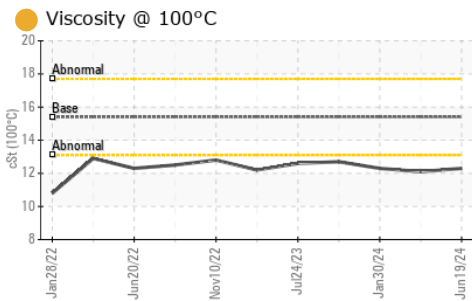
Iron	ppm	ASTM D5185m	>100	27	8	11
Chromium	ppm	ASTM D5185m	>20	2	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	4	5
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	3	0	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Silicon	ppm	ASTM D5185m	>25	19	8	8
Potassium	ppm	ASTM D5185m	>20	2	0	4
Fuel		WC Method	>5	<1.0	<1.0	1.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.9	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.1	21.2
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

Sodium	ppm	ASTM D5185m		0	<1	3
Boron	ppm	ASTM D5185m		196	251	243
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		222	255	248
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		677	840	809
Calcium	ppm	ASTM D5185m		1576	1470	1340
Phosphorus	ppm	ASTM D5185m		926	955	951
Zinc	ppm	ASTM D5185m		1135	1113	1105
Sulfur	ppm	ASTM D5185m		3103	3383	3105
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.1	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	8.3	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.1	12.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211839 **Received** : 21 Jun 2024
Lab Number : 06216564 **Tested** : 24 Jun 2024
Unique Number : 11089428 **Diagnosed** : 24 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292

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)