CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
[45497]
Machine Id
JOHN DEERE 700L 1T0700LXLNF422061
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 GAL)

RECOMMENDATION

We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

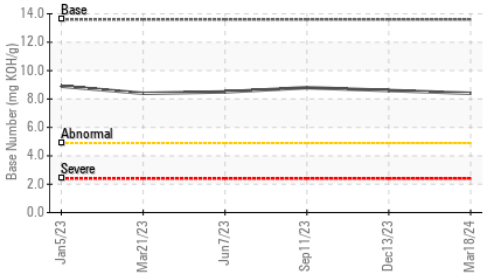
Sodium and/or potassium levels are high.

FLUID CONDITION

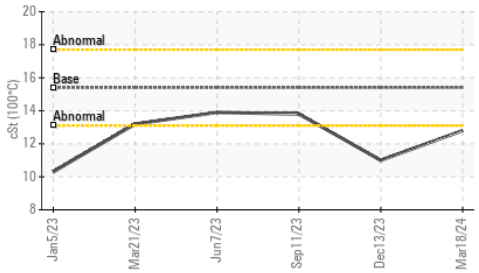
The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208432	JR0196106	JR0183854
Sample Date		Client Info		18 Mar 2024	13 Dec 2023	11 Sep 2023
Machine Age	hrs	Client Info		2445	2445	1951
Oil Age	hrs	Client Info		2445	494	0
Filter Age	hrs	Client Info		0	494	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>51	8	10	11
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	2	8
Lead	ppm	ASTM D5185m	>26	<1	<1	0
Copper	ppm	ASTM D5185m	>26	3	1	2
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	8	6	6
Potassium	ppm	ASTM D5185m	>20	▲ 119	3	0
Fuel	%	ASTM D3524	>2.1	<1.0	1.3	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.1	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.3	22.9
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
Sodium	ppm	ASTM D5185m	>31	▲ 106	0	2
Boron	ppm	ASTM D5185m		17	137	234
Barium	ppm	ASTM D5185m		0	13	0
Molybdenum	ppm	ASTM D5185m		34	143	243
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		263	484	808
Calcium	ppm	ASTM D5185m		1021	2560	1399
Phosphorus	ppm	ASTM D5185m		572	1035	823
Zinc	ppm	ASTM D5185m		660	1233	997
Sulfur	ppm	ASTM D5185m		1842	3459	3118
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	14.7	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.4	8.6	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	11.0	13.8

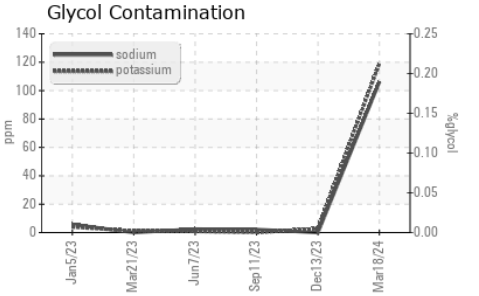
Base Number



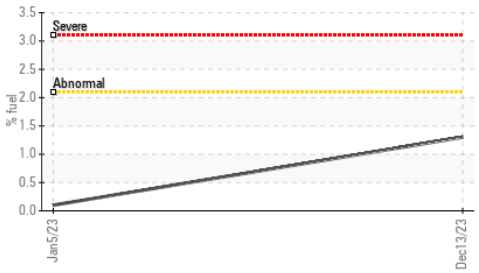
Viscosity @ 100°C



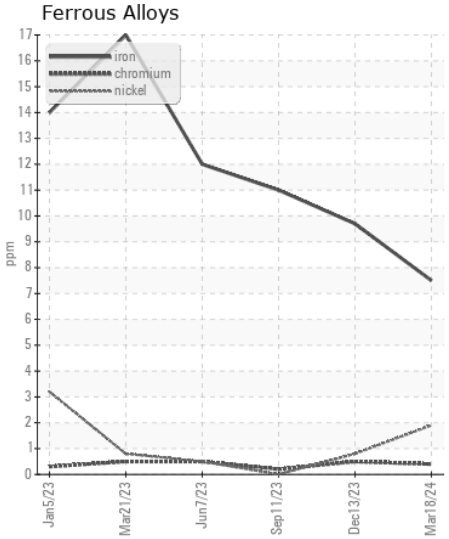
Glycol Contamination



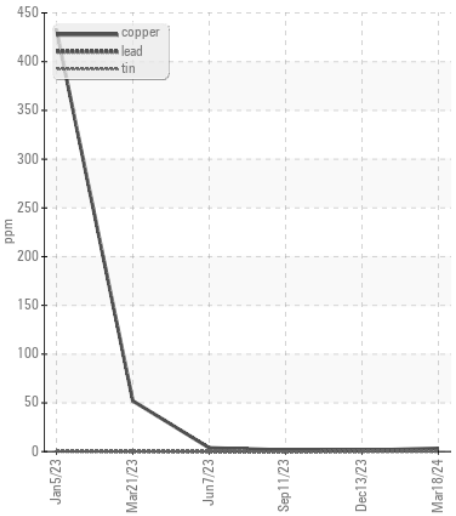
Fuel Dilution



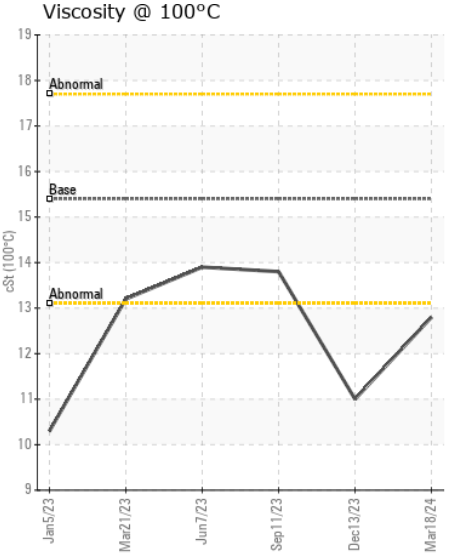
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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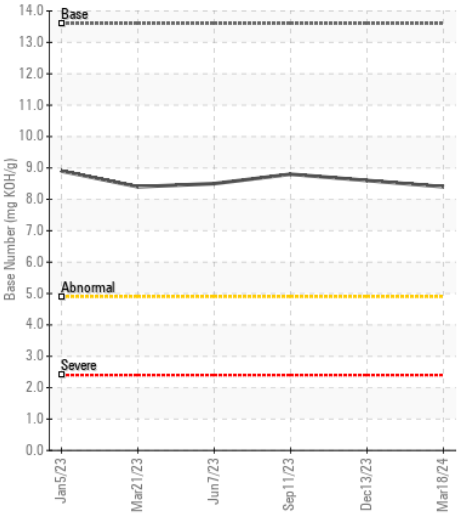

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208432 **Received** : 20 Mar 2024
Lab Number : 06123516 **Tested** : 25 Mar 2024
Unique Number : 10937667 **Diagnosed** : 25 Mar 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, Glycol, TBN)

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)

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