James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 550K 1T0550KKPJF335339
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

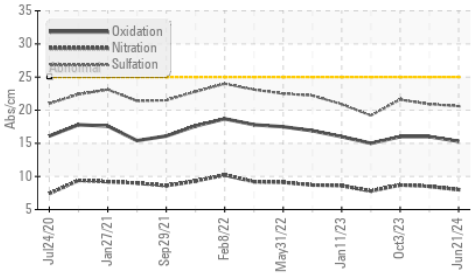
There is no indication of any contamination in the oil.

FLUID CONDITION

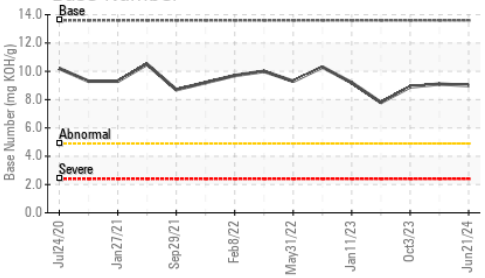
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218778	JR0208029	JR0185265
Sample Date		Client Info		21 Jun 2024	11 Mar 2024	03 Oct 2023
Machine Age	hrs	Client Info		4954	4713	4441
Oil Age	hrs	Client Info		241	272	295
Filter Age	hrs	Client Info		241	272	295
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	7	11	18
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	5	6
Lead	ppm	ASTM D5185m	>26	<1	1	2
Copper	ppm	ASTM D5185m	>26	1	<1	2
Tin	ppm	ASTM D5185m	>4	0	<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
Silicon	ppm	ASTM D5185m	>22	7	9	12
Potassium	ppm	ASTM D5185m	>20	2	3	2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.5	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.9	21.6
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	2	0	3
Boron	ppm	ASTM D5185m		245	258	310
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		241	252	319
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		831	783	1011
Calcium	ppm	ASTM D5185m		1396	1338	1704
Phosphorus	ppm	ASTM D5185m		889	856	1119
Zinc	ppm	ASTM D5185m		1070	1045	1341
Sulfur	ppm	ASTM D5185m		3436	3084	4020
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	16.0	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.0	9.1	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.4	13.5

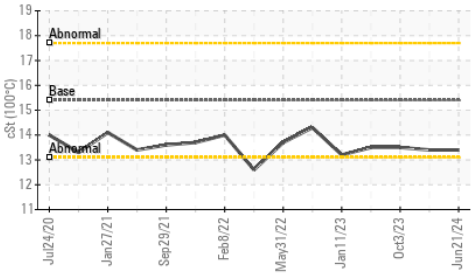
FT-IR (Direct Trend)



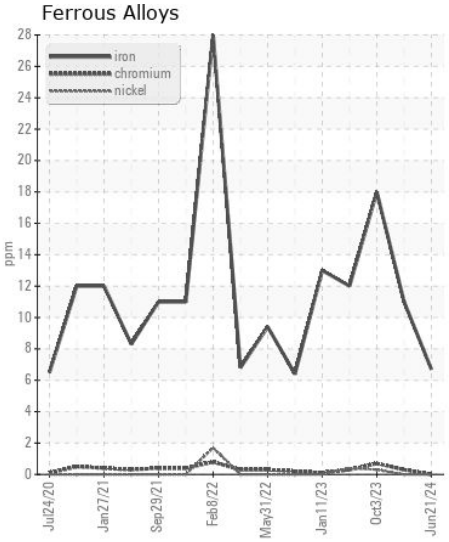
Base Number



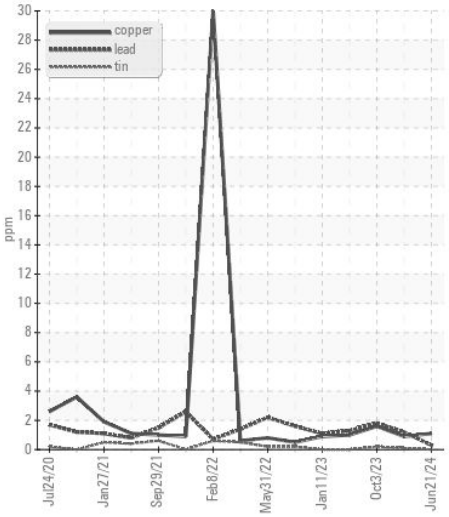
Viscosity @ 100°C



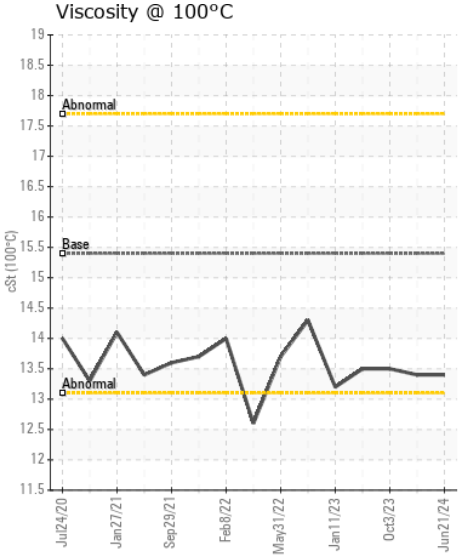
Ferrous Alloys



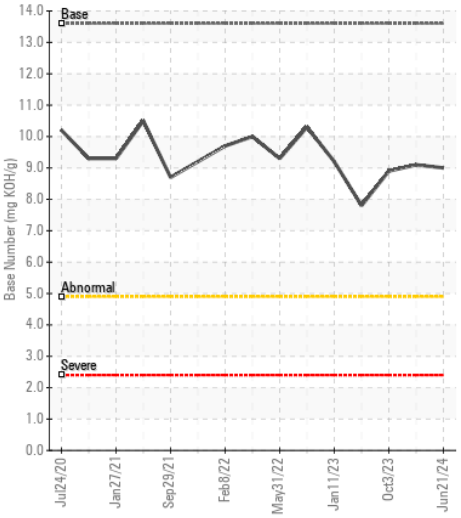
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218778
Lab Number : 06220818
Unique Number : 11099015
Test Package : CONST (Additional Tests: TBN)

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

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)

TENNOCA CONSTRUCTION
PO BOX 2379
CANDLER, NC
US 28715
Contact: MARK ROSS
mark@tennoca.com
T: (828)665-8331
F: