CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[BENCHMARK]
Machine Id
JOHN DEERE 350G 1FF350GXKEE809751
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (51 GAL)

RECOMMENDATION

The oil 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.

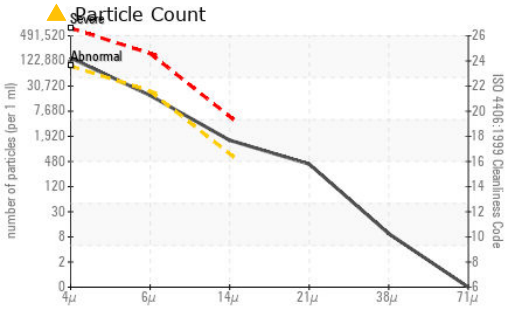
CONTAMINATION

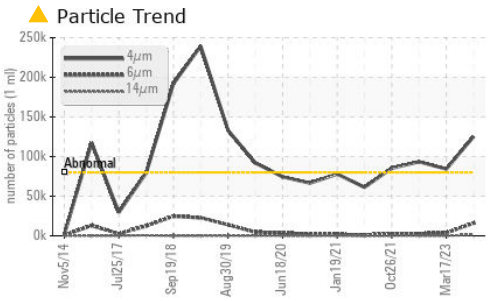
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

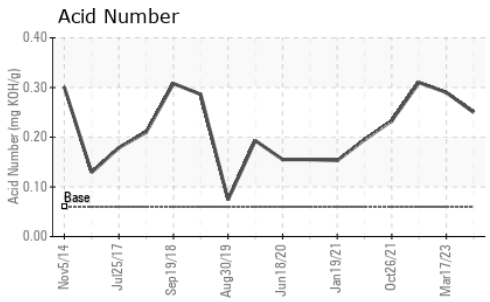
FLUID CONDITION

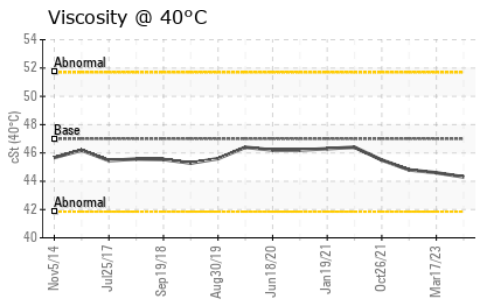
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

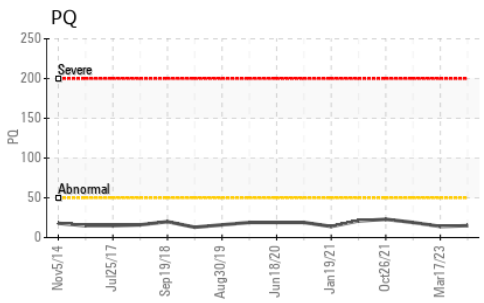
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0203076**	JR0153269	JR0132854
Sample Date		Client Info		**29 Jan 2024**	17 Mar 2023	27 Jun 2022
Machine Age	hrs	Client Info		**10096**	9283	8481
Oil Age	hrs	Client Info		**0**	5757	5856
Filter Age	hrs	Client Info		**0**	902	0
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ATTENTION	ATTENTION
PQ		ASTM D8184	>50	**15**	14	19
Iron	ppm	ASTM D5185m	>32	**29**	35	32
Chromium	ppm	ASTM D5185m	>9	**3**	5	6
Nickel	ppm	ASTM D5185m	>5	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**6**	12	12
Lead	ppm	ASTM D5185m	>28	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**3**	1	1
Tin	ppm	ASTM D5185m	>5	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>11	**10**	13	15
Potassium	ppm	ASTM D5185m	>20	**1**	<1	2
Water		WC Method	>0.075	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647	>80000	▲ **125303**	▲ 84298	▲ 93491
Particles >6µm		ASTM D7647	>20000	**15872**	3753	2672
Particles >14µm		ASTM D7647	>640	▲ **1354**	87	32
Particles >21µm		ASTM D7647	>160	▲ **366**	20	6
Particles >38µm		ASTM D7647	>40	**8**	1	2
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	▲ **24/21/18**	▲ 24/19/14	▲ 24/19/12
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	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	>0.075	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m	>21	**0**	1	0
Boron	ppm	ASTM D5185m		**0**	0	<1
Barium	ppm	ASTM D5185m		**2**	0	2
Molybdenum	ppm	ASTM D5185m		**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**4**	5	2
Calcium	ppm	ASTM D5185m		**20**	4	14
Phosphorus	ppm	ASTM D5185m	827	**315**	468	493
Zinc	ppm	ASTM D5185m	0	**74**	18	37
Sulfur	ppm	ASTM D5185m	13	**302**	0	227
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	**0.25**	0.29	0.31
Visc @ 40°C	cSt	ASTM D445	47	**44.3**	44.6	44.8

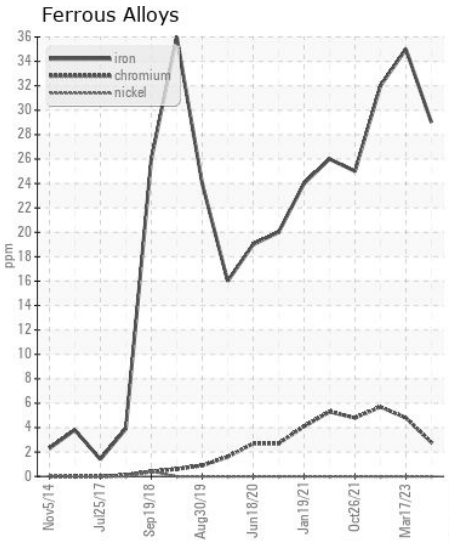


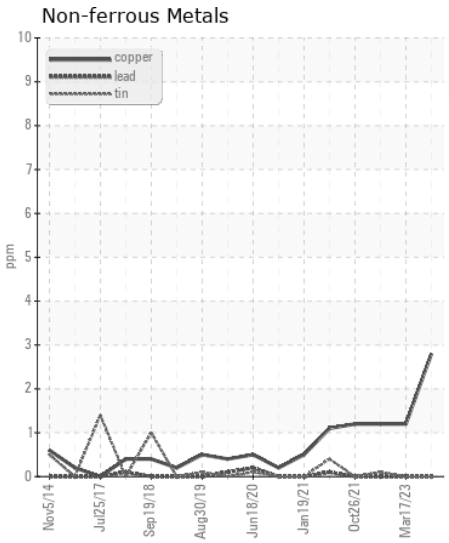


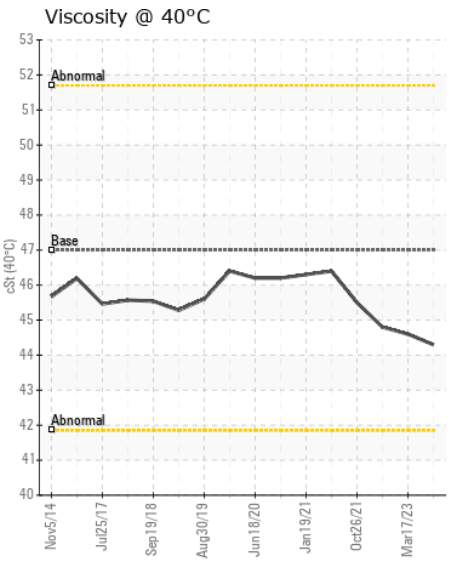


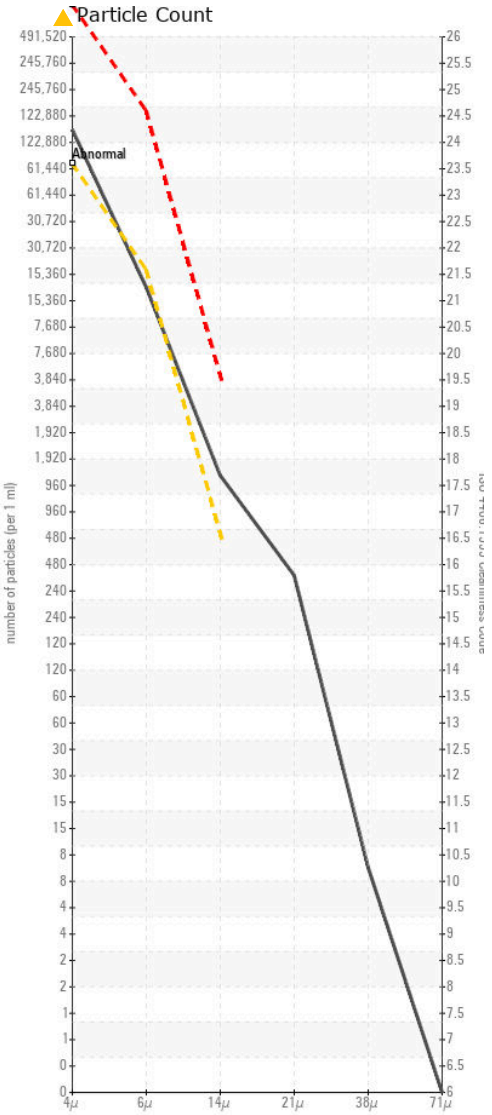


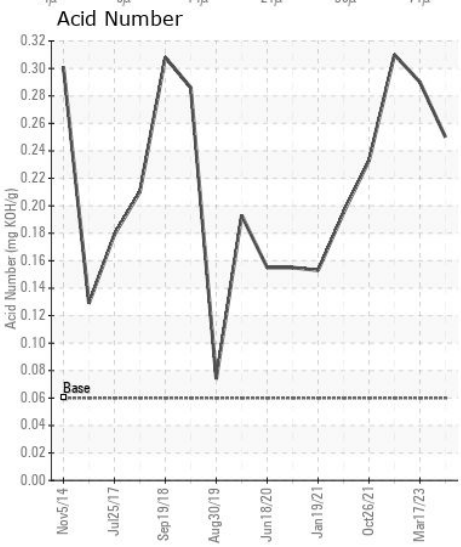












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0203076	**Received**	: 14 Feb 2024
Lab Number	: 06089513	**Tested**	: 15 Feb 2024
Unique Number	: 10876958	**Diagnosed**	: 15 Feb 2024 - Wes Davis
Test Package	: CONST (Additional Tests: PQ)		

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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