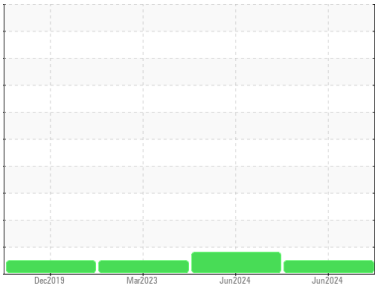
LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
JOHN DEERE 350G 1FF350GXCGF811323
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date. (Customer Sample Comment: CHECK FOR CROSS CONTAMINATION/ WRONG OIL TYPE)

Wear
All component wear rates are normal.

Contamination
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition
Additive levels do not indicate the addition of a different brand, or type of oil. AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**LEC0050859**	LEC0050857	LEC0040001
Sample Date		Client Info		**18 Jun 2024**	18 Jun 2024	07 Mar 2023
Machine Age	hrs	Client Info		**5780**	8120	4988
Oil Age	hrs	Client Info		**792**	3132	2160
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**NORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	**22**	21	12
Iron	ppm	ASTM D5185m	>32	**1**	12	1
Chromium	ppm	ASTM D5185m	>9	**1**	▲ 16	2
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>9	**2**	2	<1
Lead	ppm	ASTM D5185m	>28	**<1**	<1	0
Copper	ppm	ASTM D5185m	>50	**<1**	2	<1
Tin	ppm	ASTM D5185m	>5	**<1**	<1	0
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

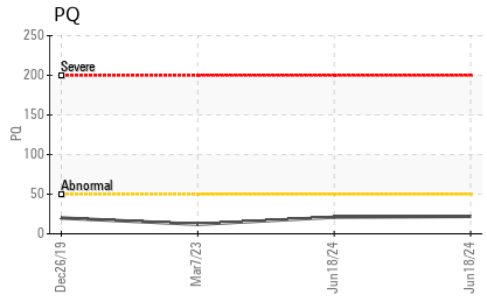
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**<1**	1	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	0
Manganese	ppm	ASTM D5185m		**0**	<1	0
Magnesium	ppm	ASTM D5185m		**<1**	3	4
Calcium	ppm	ASTM D5185m		**21**	96	121
Phosphorus	ppm	ASTM D5185m	827	**613**	650	598
Zinc	ppm	ASTM D5185m	0	**21**	53	49
Sulfur	ppm	ASTM D5185m	13	**0**	128	164

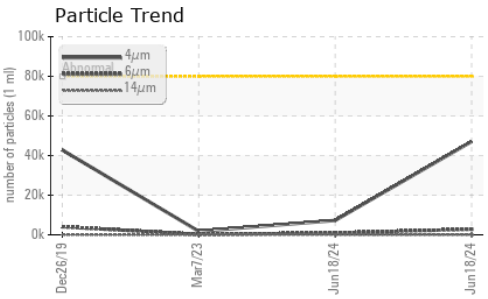
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	**1**	6	1
Sodium	ppm	ASTM D5185m	>21	**0**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**<1**	1	0
Water	%	ASTM D6304	>0.075	**NEG**	NEG	NEG

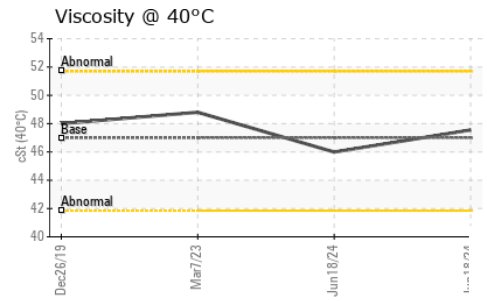
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	**7265**	47107	1784
Particles >6µm		ASTM D7647	>20000	**890**	2790	166
Particles >14µm		ASTM D7647	>640	**17**	9	22
Particles >21µm		ASTM D7647	>160	**2**	2	8
Particles >38µm		ASTM D7647	>40	**0**	0	1
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	**20/17/11**	23/19/10	18/15/12

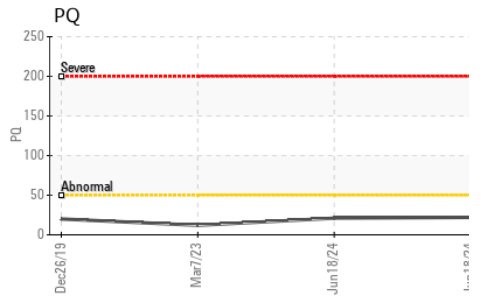
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	**0.13**	0.21	0.10

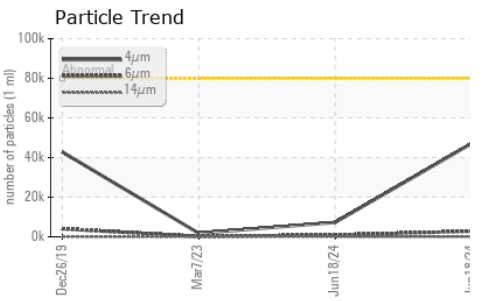
OIL ANALYSIS REPORT









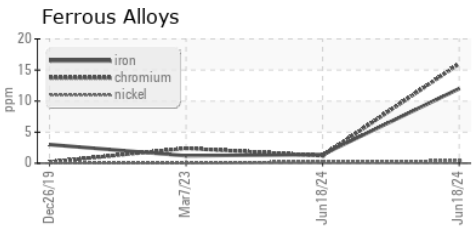


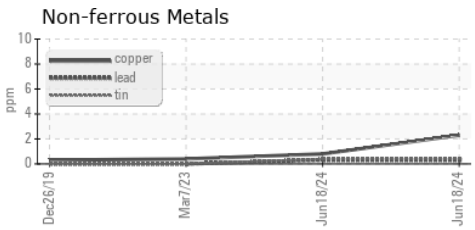
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

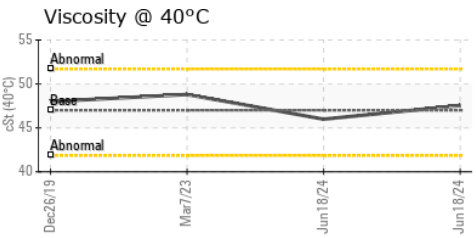
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47	**47.55**	45.99	48.8

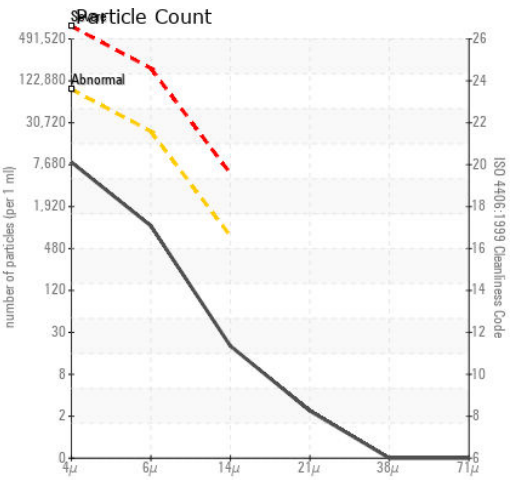
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

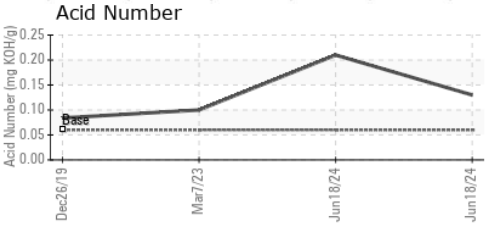
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050859 **Received** : 20 Jun 2024
Lab Number : 06216268 **Tested** : 20 Jun 2024
Unique Number : 11089132 **Diagnosed** : 20 Jun 2024 - Doug Bogart
Test Package : CONST (Additional Tests: KF, PQ)

Certificate L2367

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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Report Id: SAFDIL [WUSCAR] 06216268 (Generated: 06/21/2024 07:22:17) Rev: 1

Submitted By: JOHN MARTIN