LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 8 - Pikeville [RO#145787]
Machine Id
JOHN DEERE 160G 1FF160GXAKF057758
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

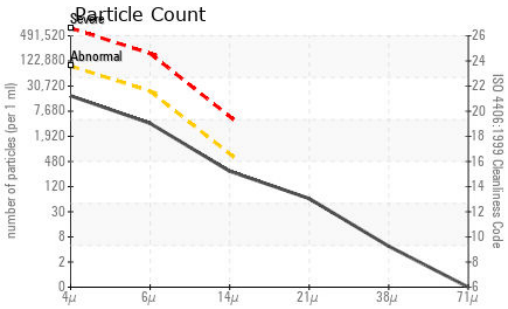
CONTAMINATION

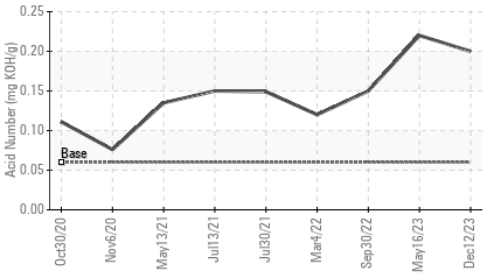
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

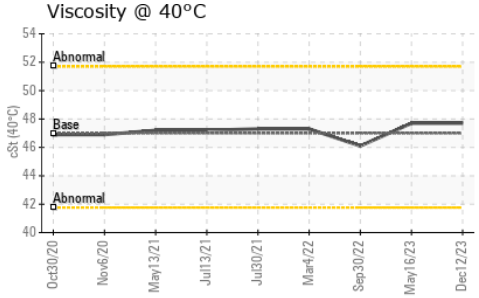
FLUID CONDITION

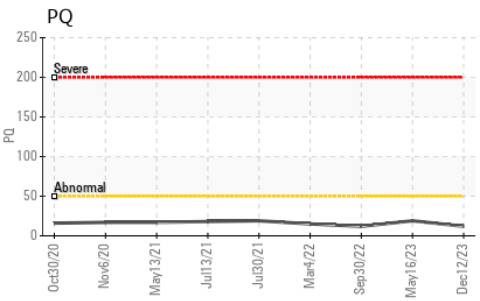
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

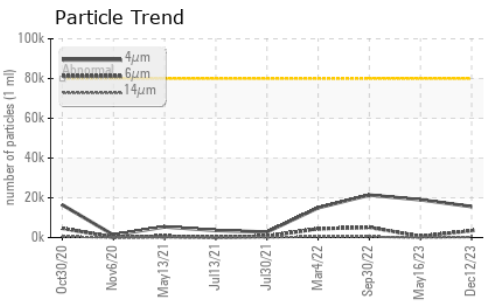
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0042599	LEC0040607	LEC0035261
Sample Date		Client Info		12 Dec 2023	16 May 2023	30 Sep 2022
Machine Age	hrs	Client Info		2500	1890	1339
Oil Age	hrs	Client Info		2500	1890	1339
Filter Age	hrs	Client Info		610	1079	528
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
PQ		ASTM D8184	>50	12	19	12
Iron	ppm	ASTM D5185m	>32	4	5	4
Chromium	ppm	ASTM D5185m	>9	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	<1	<1
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	4	5	<1
Tin	ppm	ASTM D5185m	>5	0	0	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	>11	2	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	15589	19014	21401
Particles >6µm		ASTM D7647	>20000	3426	668	5147
Particles >14µm		ASTM D7647	>640	247	5	393
Particles >21µm		ASTM D7647	>160	55	1	83
Particles >38µm		ASTM D7647	>40	4	0	9
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/19/15	21/17/10	22/20/16
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
Sodium	ppm	ASTM D5185m	>21	0	0	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		87	233	0
Phosphorus	ppm	ASTM D5185m	827	532	611	525
Zinc	ppm	ASTM D5185m	0	0	▲ 111	4
Sulfur	ppm	ASTM D5185m	13	0	22	89
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.20	0.22	0.15
Visc @ 40°C	cSt	ASTM D445	47	47.7	47.7	46.1

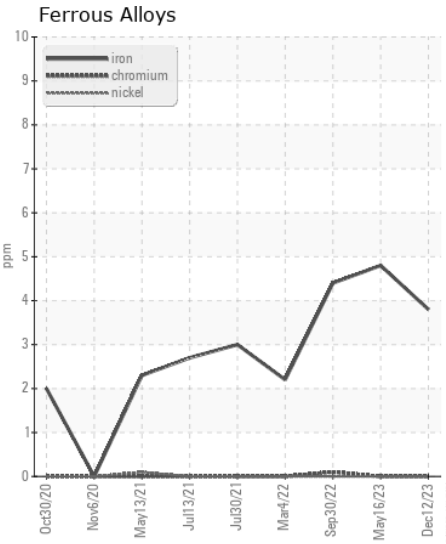


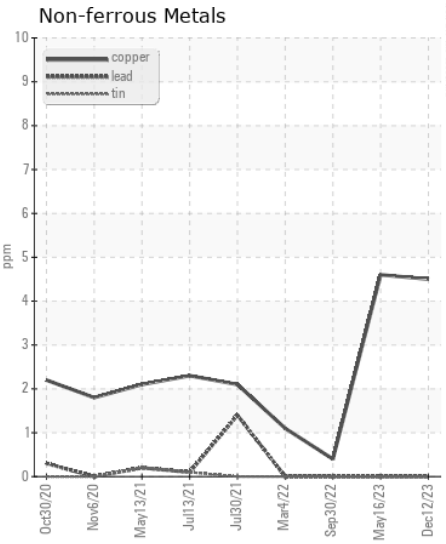


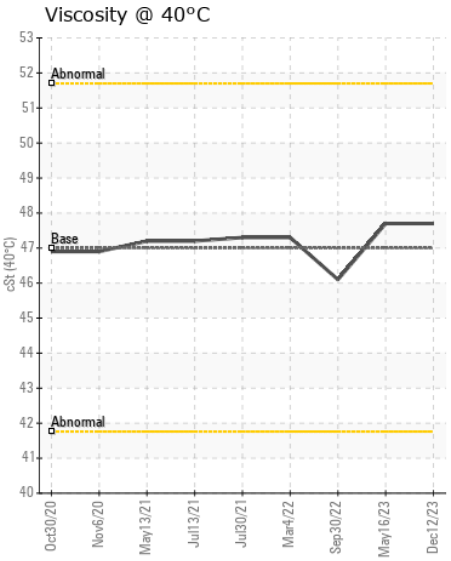


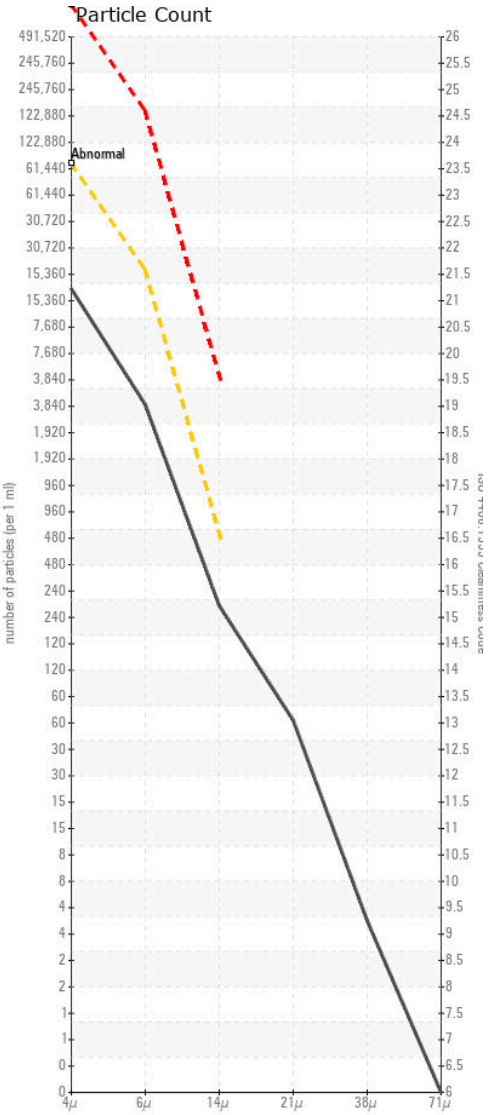


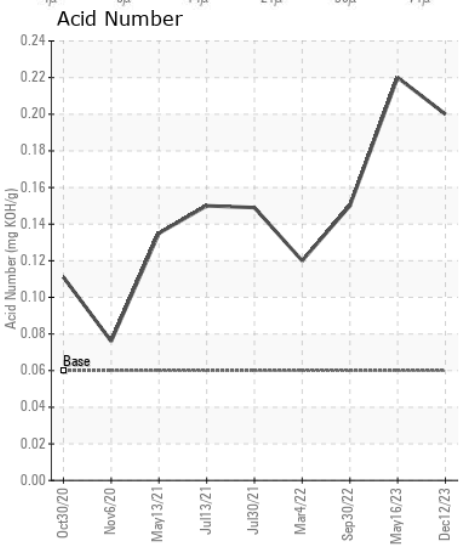












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042599 **Received** : 14 Dec 2023
Lab Number : 06034558 **Tested** : 15 Dec 2023
Unique Number : 10789787 **Diagnosed** : 15 Dec 2023 - 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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Report Id: LESMAROH [WUSCAR] 06034558 (Generated: 07/01/2024 17:04:20) Rev: 1

Submitted By: STORE 2 - BEAVER - CASEY TONEY