James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[HILLS CREEK]
Machine Id
JOHN DEERE 643L-II 1DW643LBTNF713955
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

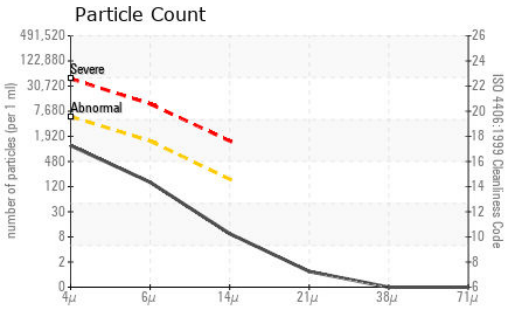
CONTAMINATION

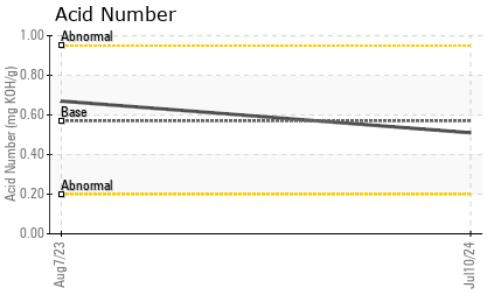
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

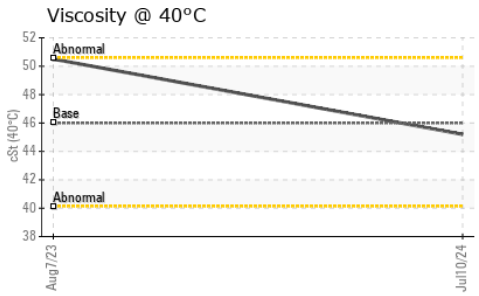
FLUID CONDITION

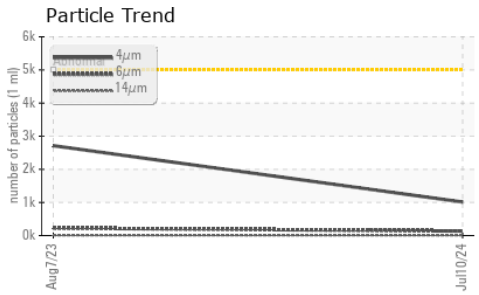
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

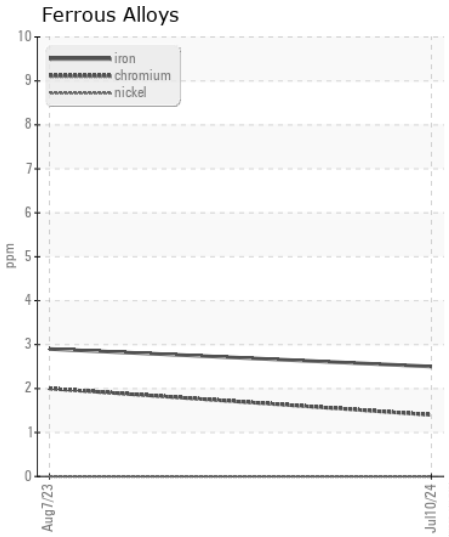
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0222042**	JR0165168	---
Sample Date		Client Info		**10 Jul 2024**	07 Aug 2023	---
Machine Age	hrs	Client Info		**2907**	1827	---
Oil Age	hrs	Client Info		**0**	0	---
Filter Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Filter Changed		Client Info		**N/A**	N/A	---
Sample Status				**NORMAL**	NORMAL	---
PQ		ASTM D8184		**13**	13	---
Iron	ppm	ASTM D5185m	>20	**2**	3	---
Chromium	ppm	ASTM D5185m	>10	**1**	2	---
Nickel	ppm	ASTM D5185m	>10	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>10	**0**	<1	---
Lead	ppm	ASTM D5185m	>10	**0**	0	---
Copper	ppm	ASTM D5185m	>75	**1**	2	---
Tin	ppm	ASTM D5185m	>10	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185m	>20	**6**	4	---
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	---
Water		WC Method	>0.1	**NEG**	NEG	---
Particles >4µm		ASTM D7647	>5000	**1012**	2713	---
Particles >6µm		ASTM D7647	>1300	**135**	226	---
Particles >14µm		ASTM D7647	>160	**8**	9	---
Particles >21µm		ASTM D7647	>40	**1**	3	---
Particles >38µm		ASTM D7647	>10	**0**	1	---
Particles >71µm		ASTM D7647	>3	**0**	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**17/14/10**	19/15/10	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	---
Sodium	ppm	ASTM D5185m		**1**	1	---
Boron	ppm	ASTM D5185m	5	**2**	0	---
Barium	ppm	ASTM D5185m	5	**0**	0	---
Molybdenum	ppm	ASTM D5185m	5	**0**	1	---
Manganese	ppm	ASTM D5185m		**0**	0	---
Magnesium	ppm	ASTM D5185m	25	**9**	6	---
Calcium	ppm	ASTM D5185m	200	**121**	242	---
Phosphorus	ppm	ASTM D5185m	300	**391**	560	---
Zinc	ppm	ASTM D5185m	370	**498**	699	---
Sulfur	ppm	ASTM D5185m	2500	**1474**	1772	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.51**	0.67	---
Visc @ 40°C	cSt	ASTM D445	46	**45.2**	50.5	---

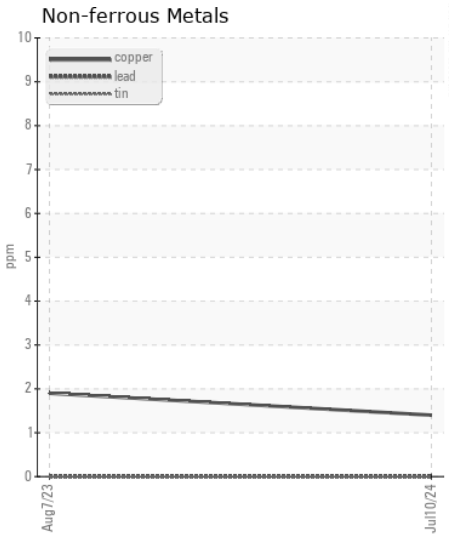


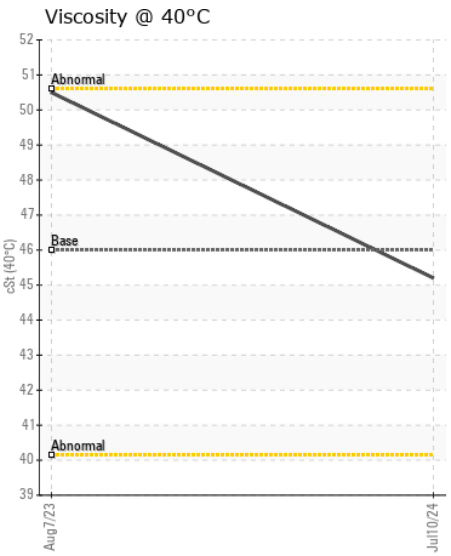


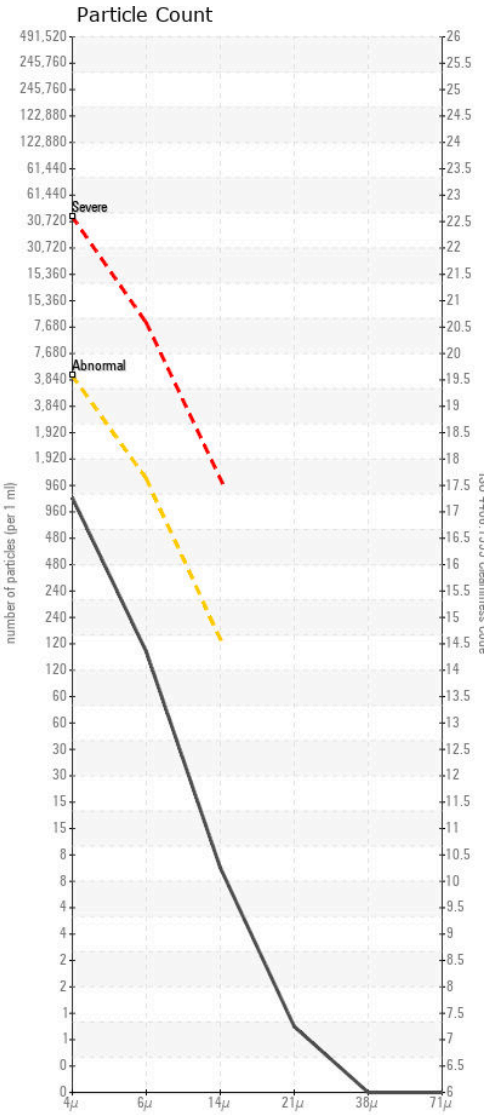


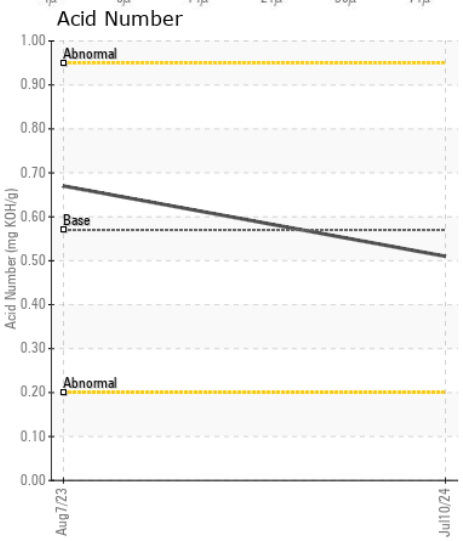












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222042 **Received** : 17 Jul 2024
Lab Number : 06239034 **Tested** : 18 Jul 2024
Unique Number : 11127868 **Diagnosed** : 18 Jul 2024 - Don Baldridge
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)

JRE - GARNER
4161 AUBURN CHURCH RD
GARNER, NC
US 27529
Contact: RALEIGH SHOP
sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com
T: (919)614-2260
F: (919)779-5432