James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[SHOWTIME LOGGING]
Machine Id
JOHN DEERE 648L-II 1DW648LBTNF714374
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

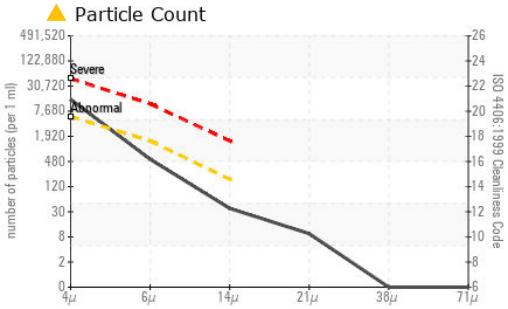
CONTAMINATION

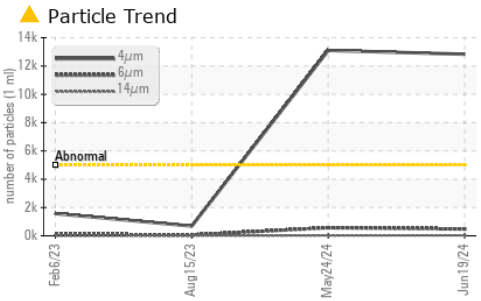
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

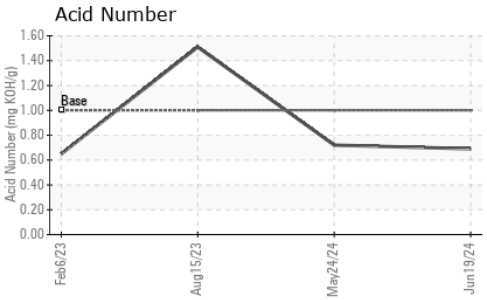
FLUID CONDITION

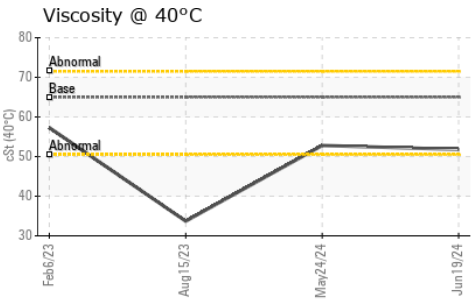
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

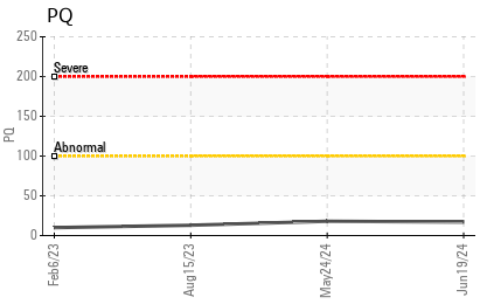
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0222064	JR0212297	JR0170779
Sample Date		Client Info		19 Jun 2024	24 May 2024	15 Aug 2023
Machine Age	hrs	Client Info		2039	1977	1442
Oil Age	hrs	Client Info		0	1977	0
Filter Age	hrs	Client Info		0	1977	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
PQ		ASTM D8184		17	18	13
Iron	ppm	ASTM D5185m	>20	9	7	<1
Chromium	ppm	ASTM D5185m	>10	4	3	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	1	0
Aluminum	ppm	ASTM D5185m	>10	3	1	1
Lead	ppm	ASTM D5185m	>10	1	<1	<1
Copper	ppm	ASTM D5185m	>75	2	3	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	8	6	3
Potassium	ppm	ASTM D5185m	>20	4	3	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 12832	▲ 13099	689
Particles >6µm		ASTM D7647	>1300	477	568	60
Particles >14µm		ASTM D7647	>160	32	22	6
Particles >21µm		ASTM D7647	>40	8	4	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/16/12	▲ 21/16/12	17/13/10
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		<1	0	2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		2	2	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	6	107
Calcium	ppm	ASTM D5185m	87	707	463	3338
Phosphorus	ppm	ASTM D5185m	727	905	615	976
Zinc	ppm	ASTM D5185m	900	1108	817	1230
Sulfur	ppm	ASTM D5185m	1500	2592	1971	3911
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.69	0.72	1.51
Visc @ 40°C	cSt	ASTM D445	65	51.8	52.8	33.7

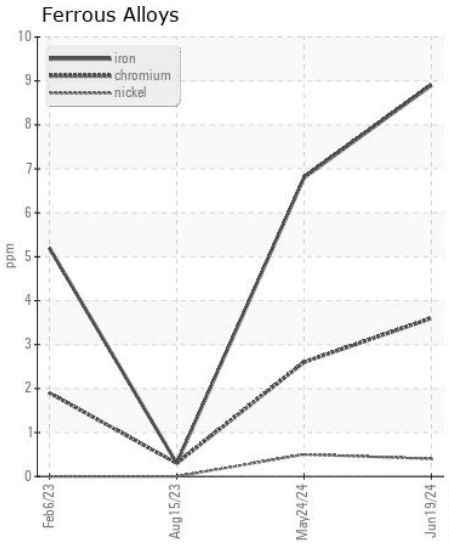


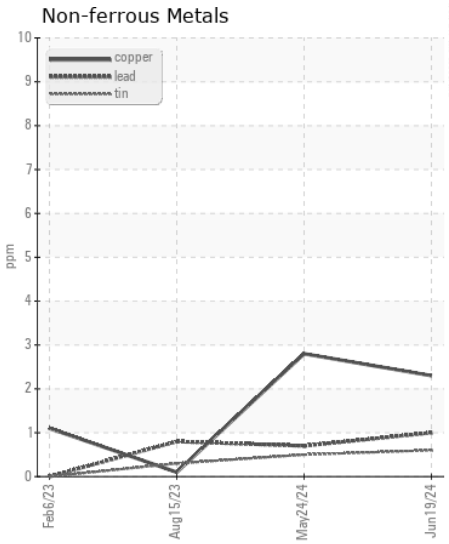


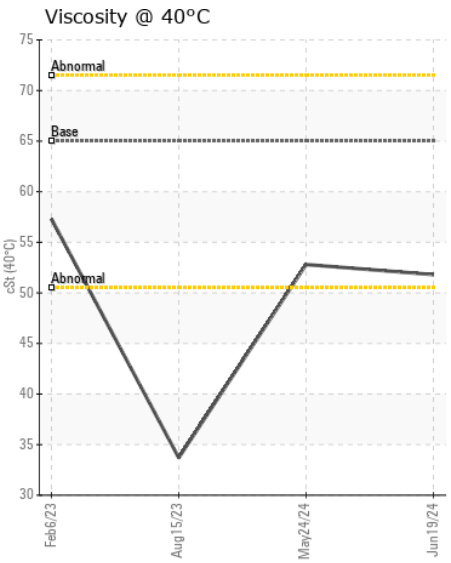


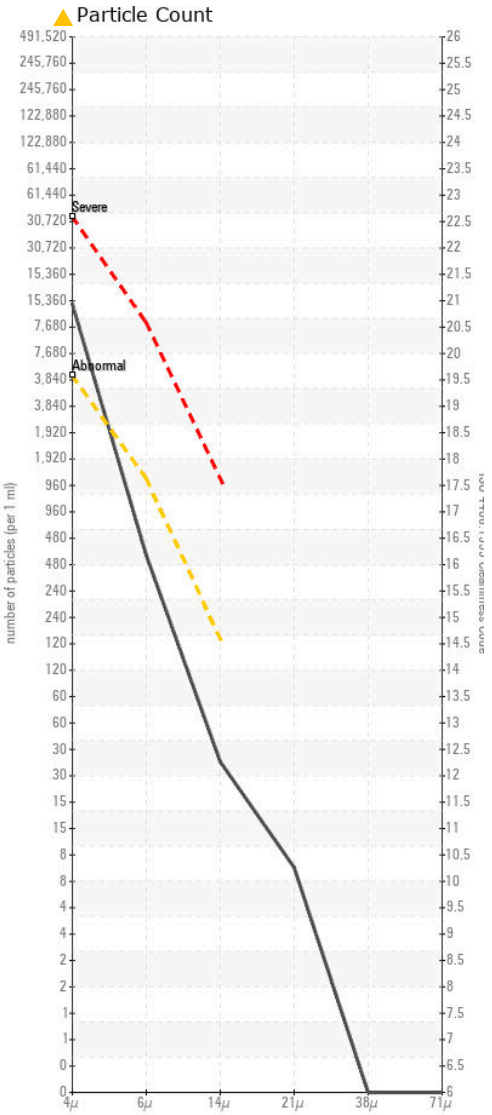


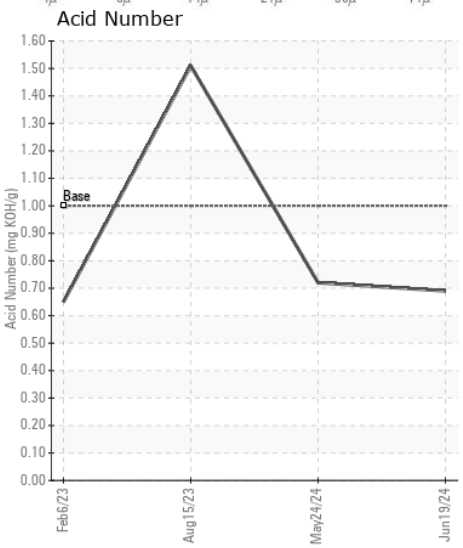












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222064
Lab Number : 06217256
Unique Number : 11090120
Test Package : CONST (Additional Tests: PQ)

Received : 21 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Don Baldridge

Certificate L2367

JRE - GARNER
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US 27529
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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)