James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 624L 1DW624LHKLF704687
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

The filter 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.

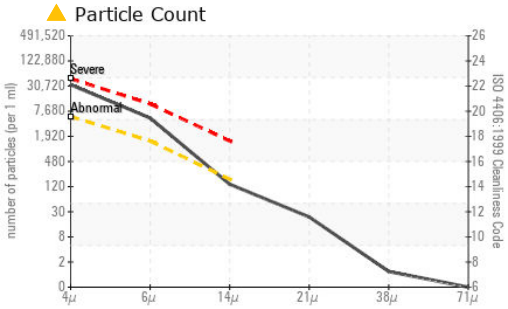
CONTAMINATION

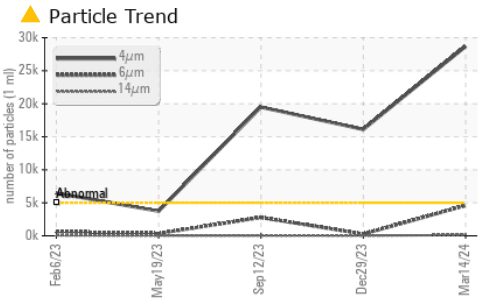
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

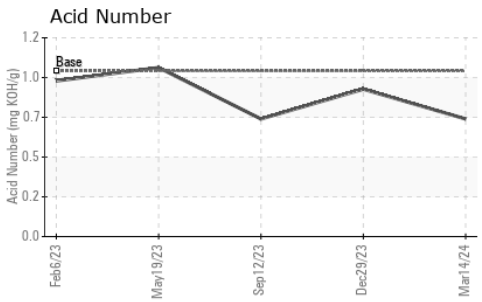
FLUID CONDITION

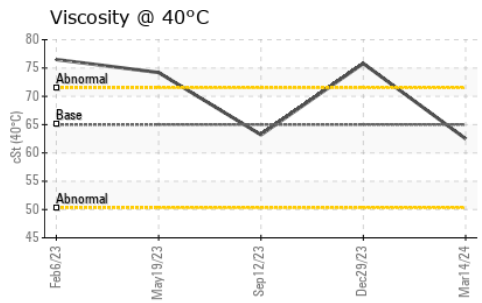
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

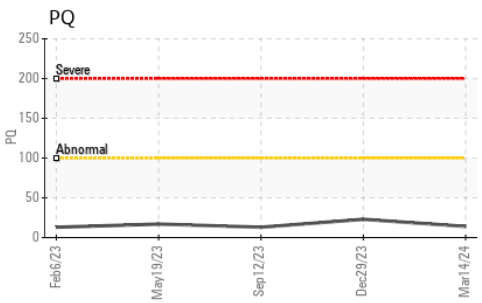
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0192848	JR0198371	JR0188365
Sample Date		Client Info		14 Mar 2024	29 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info		8580	8216	7672
Oil Age	hrs	Client Info		364	8216	7672
Filter Age	hrs	Client Info		0	0	7672
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		14	23	13
Iron	ppm	ASTM D5185m	>20	0	14	<1
Chromium	ppm	ASTM D5185m	>10	0	2	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	0	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	<1	4	1
Potassium	ppm	ASTM D5185m	>20	0	3	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 28687	▲ 16108	▲ 19493
Particles >6µm		ASTM D7647	>1300	▲ 4599	269	▲ 2782
Particles >14µm		ASTM D7647	>160	121	24	29
Particles >21µm		ASTM D7647	>40	20	5	4
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/19/14	▲ 21/15/12	▲ 21/19/12
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		0	6	2
Boron	ppm	ASTM D5185m		2	71	8
Barium	ppm	ASTM D5185m		0	10	0
Molybdenum	ppm	ASTM D5185m		3	46	7
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	659	26
Calcium	ppm	ASTM D5185m	87	100	1685	130
Phosphorus	ppm	ASTM D5185m	727	675	991	689
Zinc	ppm	ASTM D5185m	900	860	1137	877
Sulfur	ppm	ASTM D5185m	1500	1805	3605	1962
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.71	0.89	0.71
Visc @ 40°C	cSt	ASTM D445	65	62.5	75.8	63.2

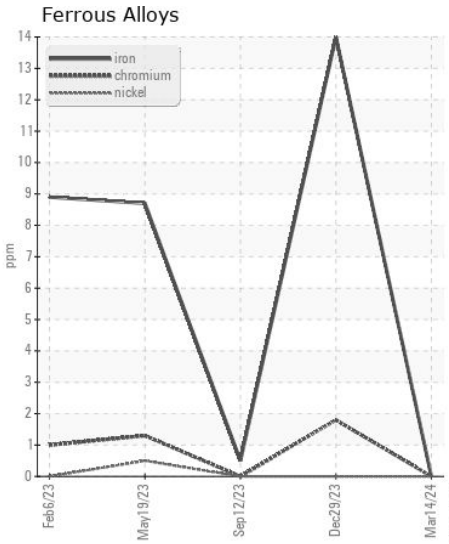


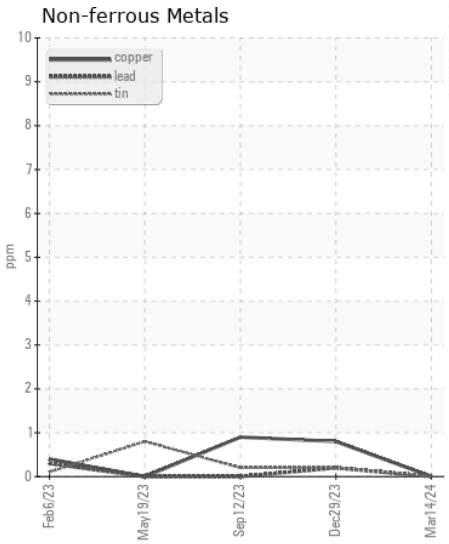


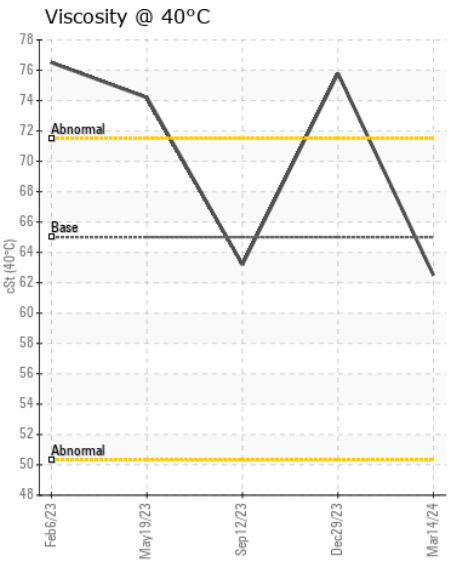


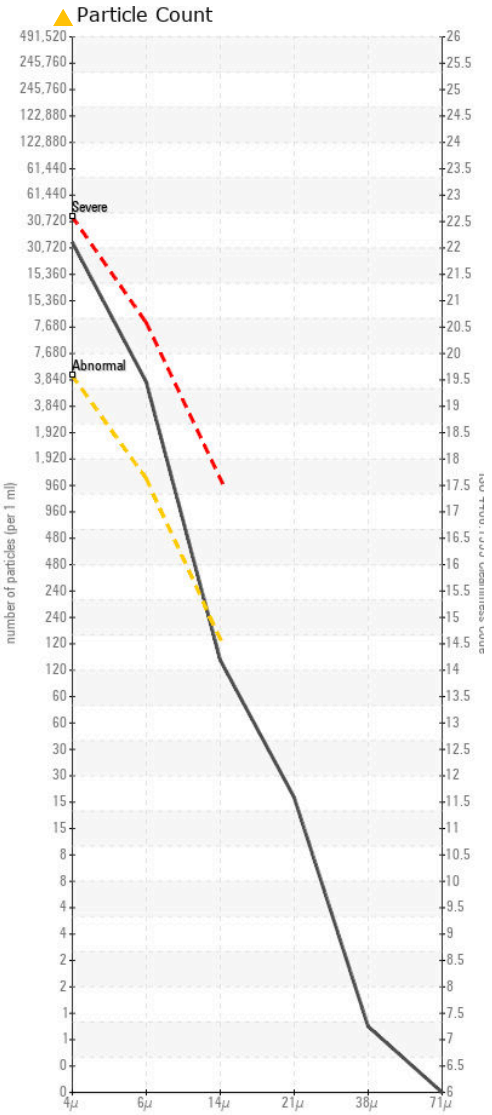


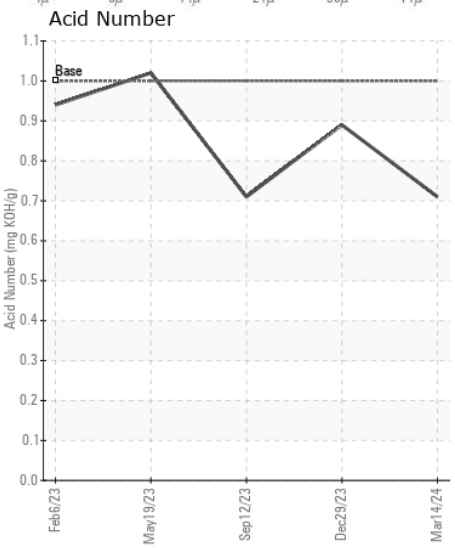












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0192848 **Received** : 19 Mar 2024
Lab Number : 06122245 **Tested** : 20 Mar 2024
Unique Number : 10936396 **Diagnosed** : 20 Mar 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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