CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 700H 940783
Component
Hydraulic System
Fluid
{not provided} (--- 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

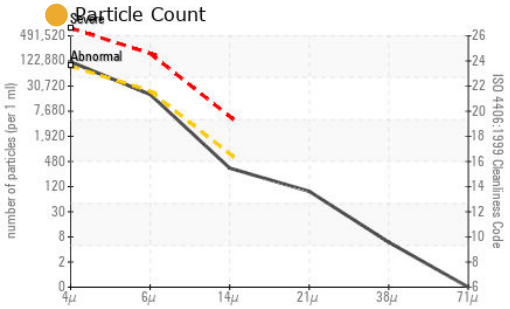
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

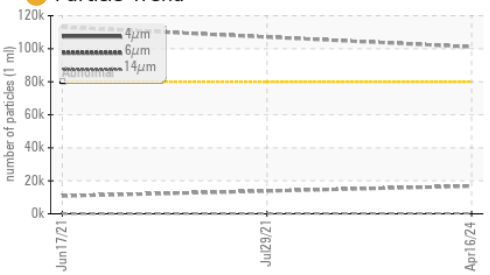
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212441	JR0098952	JR0090774
Sample Date		Client Info		16 Apr 2024	29 Jul 2021	17 Jun 2021
Machine Age	hrs	Client Info		15344	2927	2774
Oil Age	hrs	Client Info		12418	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>50	22	23	37
Iron	ppm	ASTM D5185m	>23	5	25	▲ 34
Chromium	ppm	ASTM D5185m	>9	0	<1	▲ 22
Nickel	ppm	ASTM D5185m	>5	0	0	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	2	0	● 15
Lead	ppm	ASTM D5185m	>28	0	<1	<1
Copper	ppm	ASTM D5185m	>51	<1	4	▲ 68
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	6	10	▲ 31
Potassium	ppm	ASTM D5185m	>20	0	2	3
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	● 101087	---	● 113079
Particles >6µm		ASTM D7647	>20000	16815	---	10818
Particles >14µm		ASTM D7647	>640	293	---	47
Particles >21µm		ASTM D7647	>160	82	---	8
Particles >38µm		ASTM D7647	>40	5	---	0
Particles >71µm		ASTM D7647	>10	0	---	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	● 24/21/15	---	● 24/21/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	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	<1	<1	2
Boron	ppm	ASTM D5185m		172	389	125
Barium	ppm	ASTM D5185m		2	<1	0
Molybdenum	ppm	ASTM D5185m		155	239	61
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		496	723	219
Calcium	ppm	ASTM D5185m		947	1652	1691
Phosphorus	ppm	ASTM D5185m		674	955	769
Zinc	ppm	ASTM D5185m		764	1014	942
Sulfur	ppm	ASTM D5185m		2485	2747	2102
Acid Number (AN)	mg KOH/g	ASTM D8045		1.44	---	1.197
Visc @ 40°C	cSt	ASTM D445		78.7	81.4	52.4

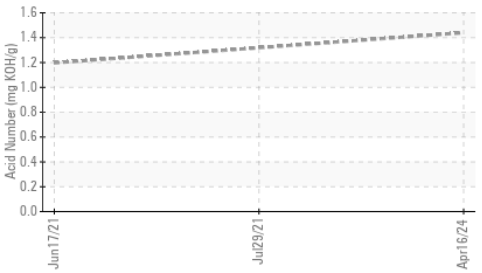
Particle Count



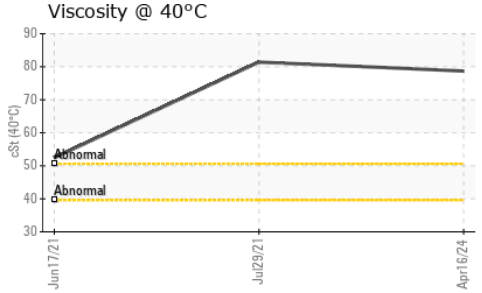
Particle Trend



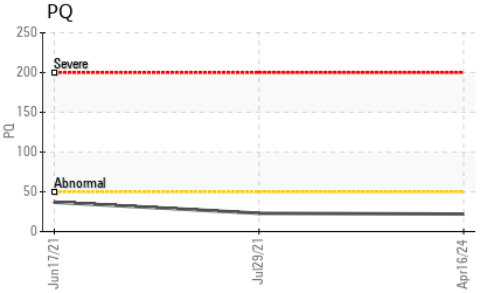
Acid Number



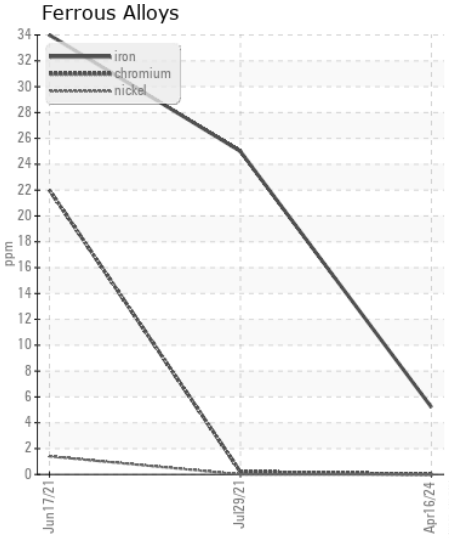
Viscosity @ 40°C



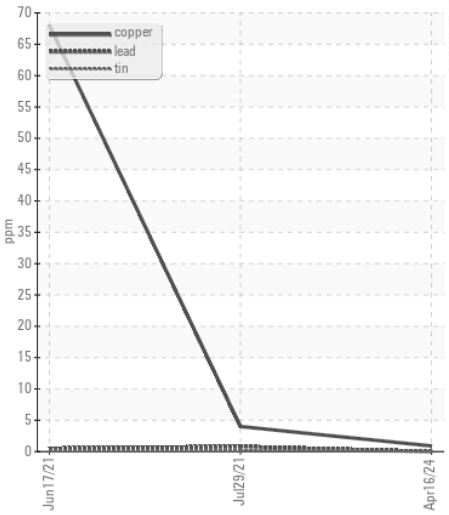
PQ



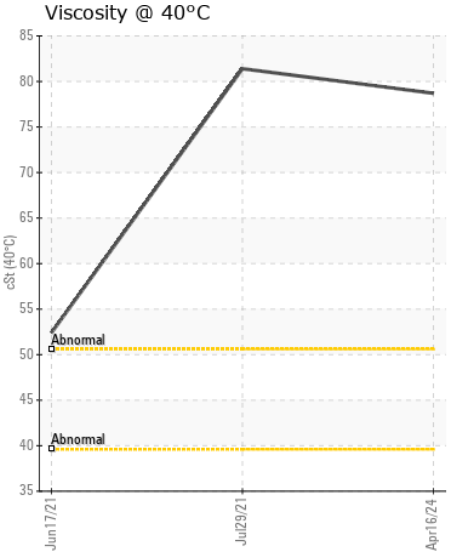
Ferrous Alloys



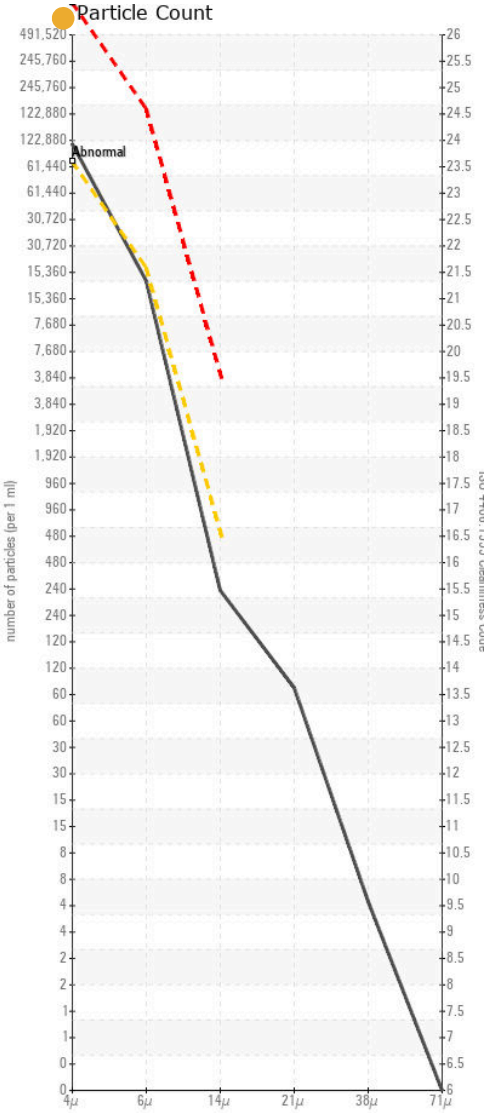
Non-ferrous Metals



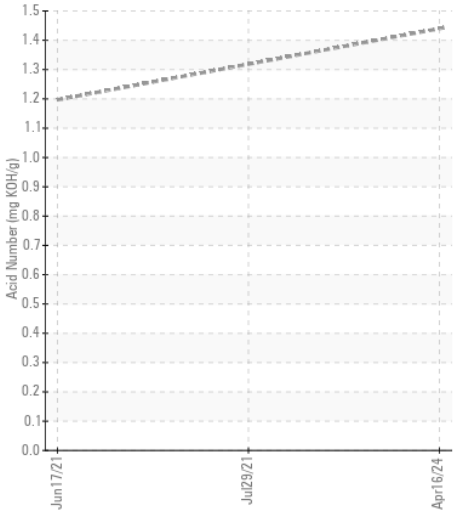
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212441
Lab Number : 06151901
Unique Number : 10981979
Test Package : CONST (Additional Tests: PQ)

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 19 Apr 2024 - Don Baldridge

Certificate L2367

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

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)