James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 444K 1DW444KZTHF678950
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

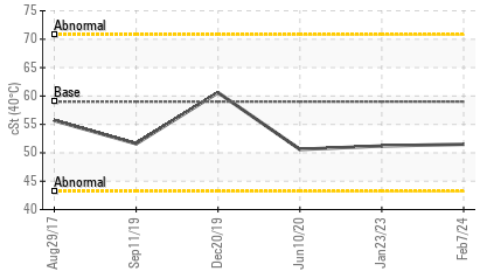
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0202882**	JR0156733	JR0050198
Sample Date		Client Info		**07 Feb 2024**	23 Jan 2023	10 Jun 2020
Machine Age	hrs	Client Info		**4409**	3552	1954
Oil Age	hrs	Client Info		**0**	3552	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Filter Changed		Client Info		**None**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
PQ		ASTM D8184		**227**	53	99
Iron	ppm	ASTM D5185m	>1501	**850**	360	281
Chromium	ppm	ASTM D5185m	>11	**3**	2	2
Nickel	ppm	ASTM D5185m	>10	**4**	2	2
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>21	**<1**	2	<1
Lead	ppm	ASTM D5185m	>51	**2**	1	0
Copper	ppm	ASTM D5185m	>101	**15**	6	12
Tin	ppm	ASTM D5185m	>10	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	**10**	10	12
Potassium	ppm	ASTM D5185m	>20	**<1**	0	<1
Water		WC Method	>0.1	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	VLITE
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	>51	**10**	4	7
Boron	ppm	ASTM D5185m		**7**	11	26
Barium	ppm	ASTM D5185m		**0**	1	0
Molybdenum	ppm	ASTM D5185m		**<1**	2	4
Manganese	ppm	ASTM D5185m		**8**	4	6
Magnesium	ppm	ASTM D5185m		**87**	99	72
Calcium	ppm	ASTM D5185m		**3045**	3372	3605
Phosphorus	ppm	ASTM D5185m		**954**	991	1069
Zinc	ppm	ASTM D5185m		**1169**	1204	1301
Sulfur	ppm	ASTM D5185m		**3215**	4145	3378
Visc @ 40°C	cSt	ASTM D445	59	**51.5**	51.2	50.6

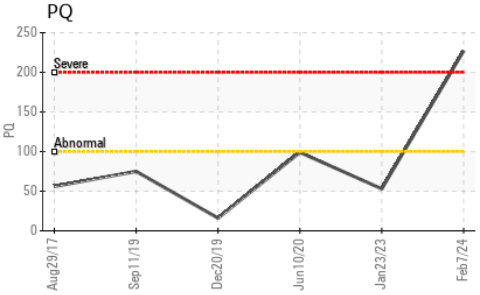
Report Id: RWMGAR [WUSCAR] 06085040 (Generated: 02/12/2024 14:58:48) Rev: 1

Submitted By: JOHN GUASCHINO

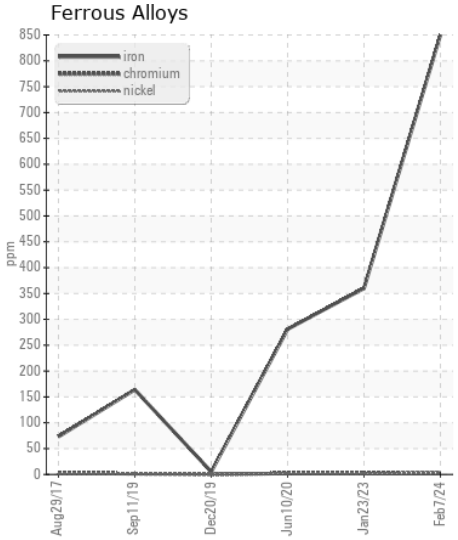
Viscosity @ 40°C



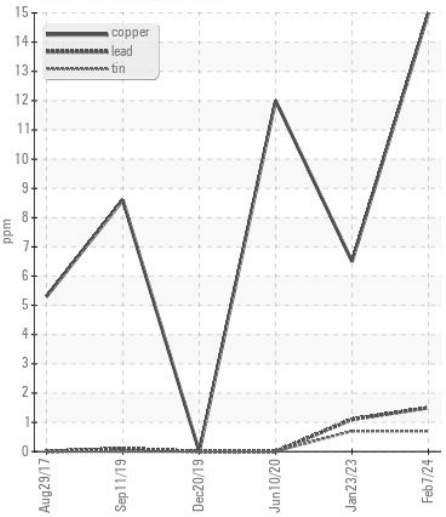
PQ



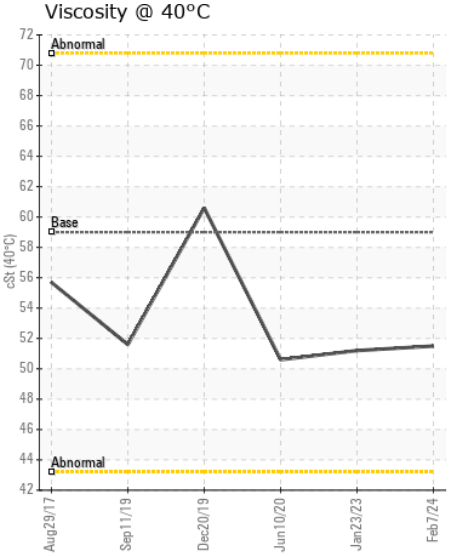
Ferrous Alloys



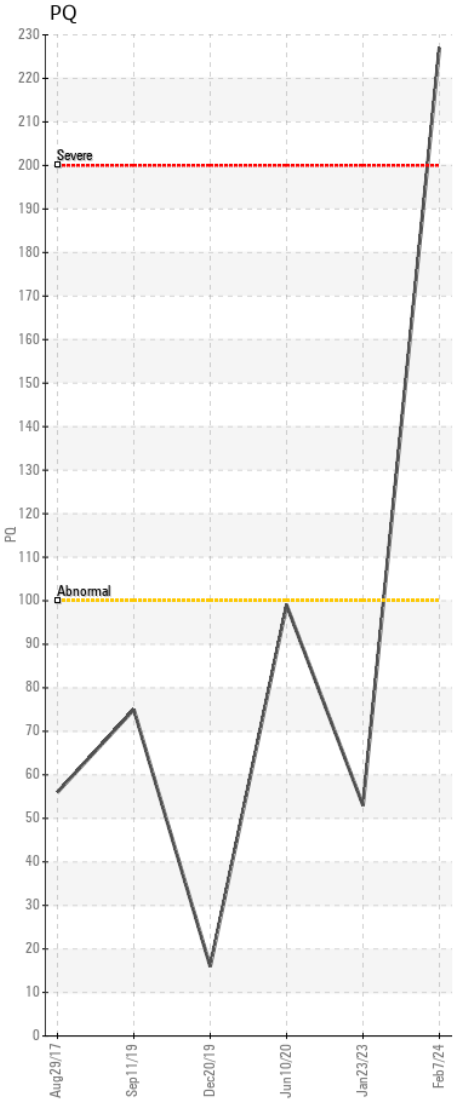
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202882
Lab Number : 06085040
Unique Number : 10872485
Test Package : CONST (Additional Tests: PQ)

Received : 09 Feb 2024
Tested : 11 Feb 2024
Diagnosed : 12 Feb 2024 - Sean Felton

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