James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 310E 1DW310EXCNF716248
Component
Rear Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (39 QTS)

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

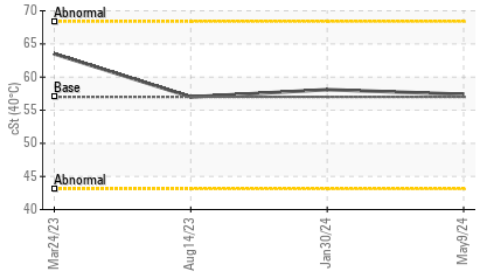
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0214393**	JR0203324	JR0182031
Sample Date		Client Info		**09 May 2024**	30 Jan 2024	14 Aug 2023
Machine Age	hrs	Client Info		**1958**	1440	956
Oil Age	hrs	Client Info		**977**	943	0
Filter Age	hrs	Client Info		**977**	484	0
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
PQ		ASTM D8184		**152**	164	102
Iron	ppm	ASTM D5185m	>500	**234**	227	128
Chromium	ppm	ASTM D5185m	>10	**2**	2	1
Nickel	ppm	ASTM D5185m	>10	**7**	6	3
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**3**	2	1
Lead	ppm	ASTM D5185m	>25	**16**	13	9
Copper	ppm	ASTM D5185m	>100	**173**	137	81
Tin	ppm	ASTM D5185m	>10	**9**	7	4
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
White Metal	scalar	*Visual	NONE	**NONE**	MODER	HEAVY
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	**11**	12	10
Potassium	ppm	ASTM D5185m	>20	**2**	2	<1
Water		WC Method	>.2	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**MODER**	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	>.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**10**	7	9
Boron	ppm	ASTM D5185m	6	**62**	45	38
Barium	ppm	ASTM D5185m	0	**1**	2	0
Molybdenum	ppm	ASTM D5185m	0	**14**	5	6
Manganese	ppm	ASTM D5185m		**29**	32	19
Magnesium	ppm	ASTM D5185m	145	**109**	85	99
Calcium	ppm	ASTM D5185m	3570	**3464**	3333	3434
Phosphorus	ppm	ASTM D5185m	1290	**1212**	1073	1033
Zinc	ppm	ASTM D5185m	1640	**1324**	1307	1305
Sulfur	ppm	ASTM D5185m		**3761**	3998	3982
Visc @ 40°C	cSt	ASTM D445	57.0	**57.4**	58.1	57.0

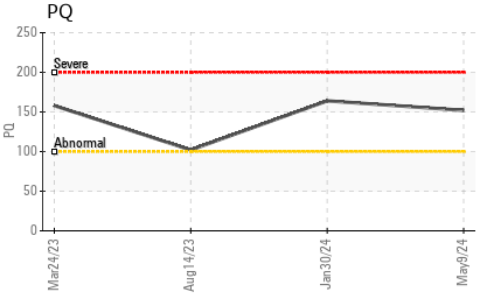
Report Id: BSSWAR [WUSCAR] 06175817 (Generated: 05/14/2024 14:04:49) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

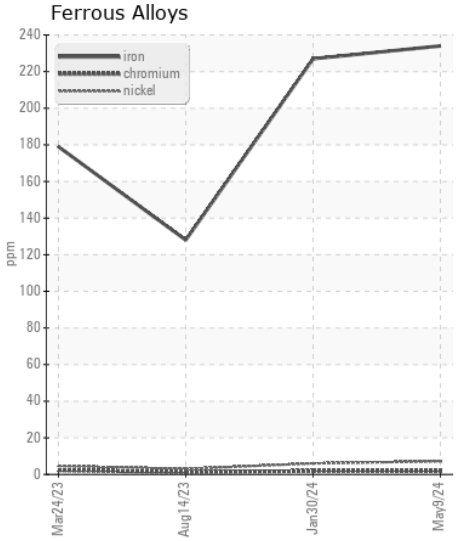
Viscosity @ 40°C



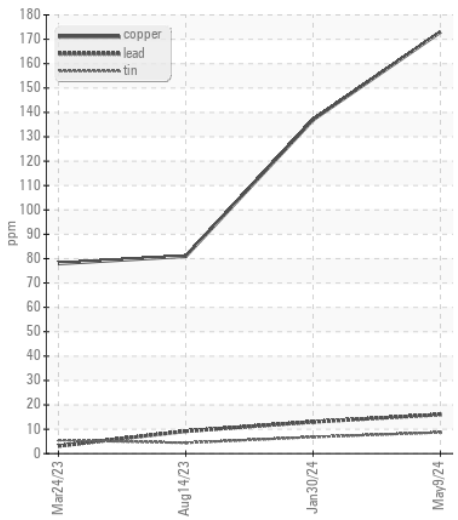
PQ



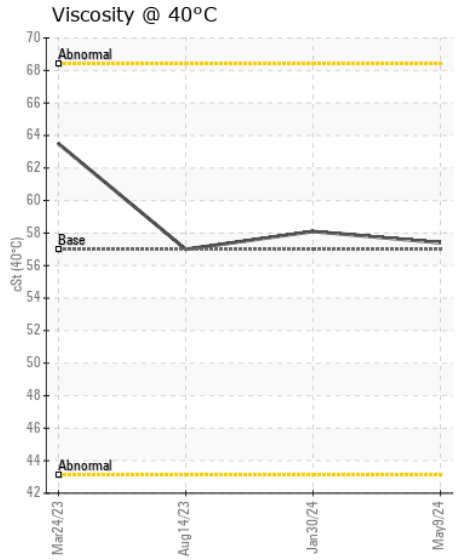
Ferrous Alloys



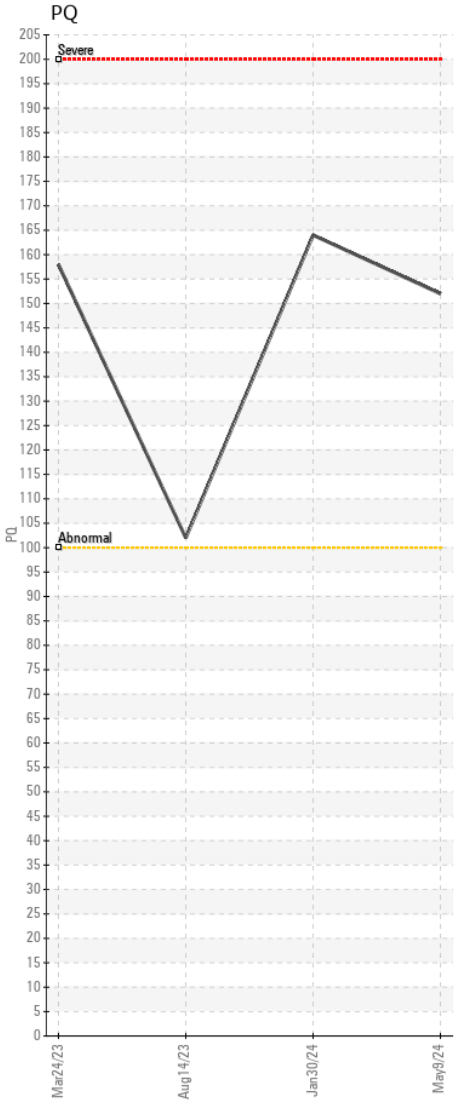
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214393 **Received** : 10 May 2024
Lab Number : 06175817 **Tested** : 13 May 2024
Unique Number : 11021870 **Diagnosed** : 14 May 2024 - Sean Felton
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)

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