CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[46991]
Machine Id
JOHN DEERE 310E 1DW310EXJNF714255
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (37 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

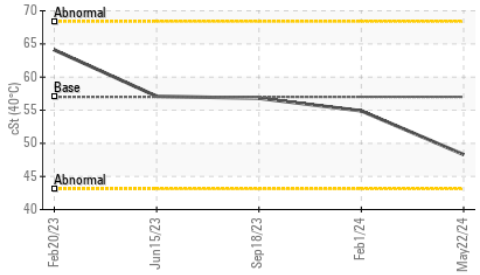
There is no indication of any contamination in the oil.

FLUID CONDITION

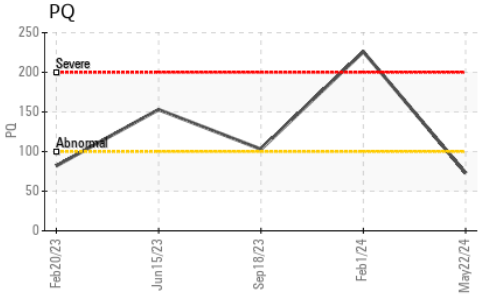
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217645	JR0202985	JR0187858
Sample Date		Client Info		22 May 2024	01 Feb 2024	18 Sep 2023
Machine Age	hrs	Client Info		2439	1939	1448
Oil Age	hrs	Client Info		500	945	0
Filter Age	hrs	Client Info		0	945	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184		73	226	103
Iron	ppm	ASTM D5185m	>500	77	259	153
Chromium	ppm	ASTM D5185m	>10	<1	2	2
Nickel	ppm	ASTM D5185m	>10	1	5	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	1	3	2
Lead	ppm	ASTM D5185m	>25	0	4	2
Copper	ppm	ASTM D5185m	>100	60	184	138
Tin	ppm	ASTM D5185m	>10	2	9	5
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	>75	8	17	12
Potassium	ppm	ASTM D5185m	>20	3	1	3
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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		2	13	10
Boron	ppm	ASTM D5185m	6	14	48	44
Barium	ppm	ASTM D5185m	0	0	3	0
Molybdenum	ppm	ASTM D5185m	0	5	5	5
Manganese	ppm	ASTM D5185m		2	6	4
Magnesium	ppm	ASTM D5185m	145	109	91	89
Calcium	ppm	ASTM D5185m	3570	3350	3472	3443
Phosphorus	ppm	ASTM D5185m	1290	992	1102	1010
Zinc	ppm	ASTM D5185m	1640	1216	1297	1289
Sulfur	ppm	ASTM D5185m		3688	3265	3989
Visc @ 40°C	cSt	ASTM D445	57.0	48.3	54.9	56.8

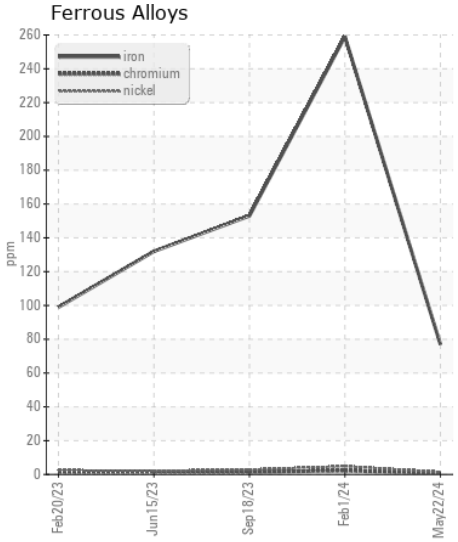
Viscosity @ 40°C



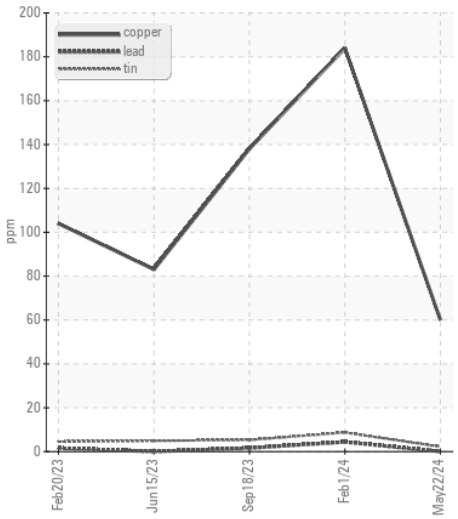
PQ



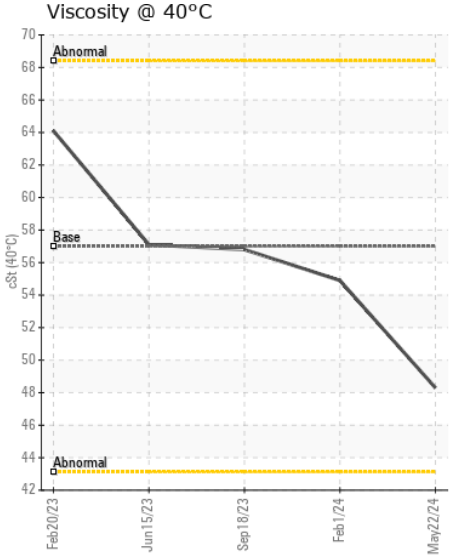
Ferrous Alloys



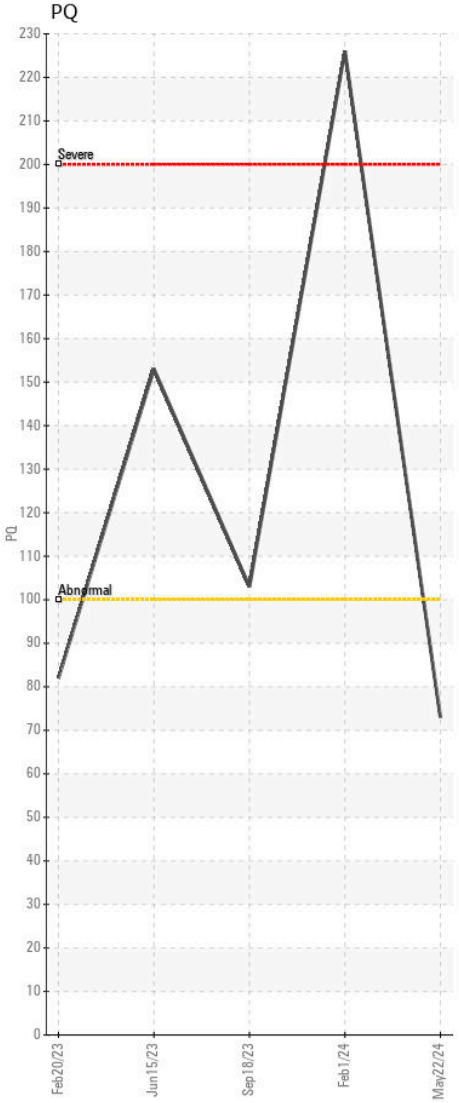
Non-ferrous Metals



Viscosity @ 40°C



PQ



Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0217645	**Received**	: 23 May 2024
Lab Number	: 06189793	**Tested**	: 29 May 2024
Unique Number	: 11046545	**Diagnosed**	: 29 May 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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