CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[16W16124]
Machine Id
JOHN DEERE 260E 1DW260ETEHF680678
Component
Center Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (39 QTS)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: 16W16124)

WEAR

Bearing and/or gear wear is indicated.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

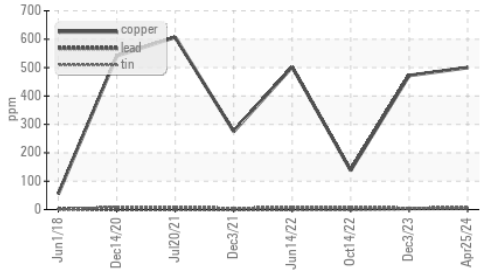
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207060	JR0194709	JR0151190
Sample Date		Client Info		25 Apr 2024	03 Dec 2023	14 Oct 2022
Machine Age	hrs	Client Info		5347	4962	4056
Oil Age	hrs	Client Info		1291	0	0
Filter Age	hrs	Client Info		385	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184		281	209	215
Iron	ppm	ASTM D5185m	>500	▲ 588	506	▲ 860
Chromium	ppm	ASTM D5185m	>10	2	1	2
Nickel	ppm	ASTM D5185m	>10	2	1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	3
Lead	ppm	ASTM D5185m	>25	4	4	<1
Copper	ppm	ASTM D5185m	>100	▲ 500	▲ 472	▲ 138
Tin	ppm	ASTM D5185m	>10	7	6	7
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	8	8	8
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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		3	1	0
Boron	ppm	ASTM D5185m	6	0	0	6
Barium	ppm	ASTM D5185m	0	1	<1	0
Molybdenum	ppm	ASTM D5185m	0	2	1	3
Manganese	ppm	ASTM D5185m		6	4	9
Magnesium	ppm	ASTM D5185m	145	94	94	95
Calcium	ppm	ASTM D5185m	3570	3401	3325	3480
Phosphorus	ppm	ASTM D5185m	1290	996	851	1012
Zinc	ppm	ASTM D5185m	1640	1145	1192	1226
Sulfur	ppm	ASTM D5185m		3753	3247	4214
Visc @ 40°C	cSt	ASTM D445	57.0	52.3	52.9	54.5

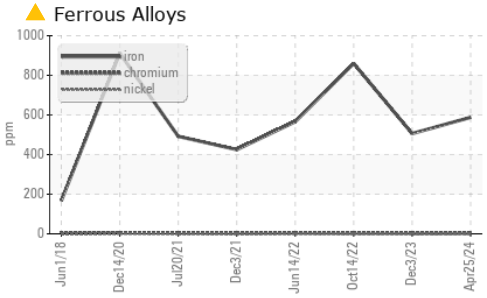
Report Id: RWMCAS [WUSCAR] 06161728 (Generated: 04/29/2024 13:43:43) Rev: 1

Submitted By: Jacob Harvey

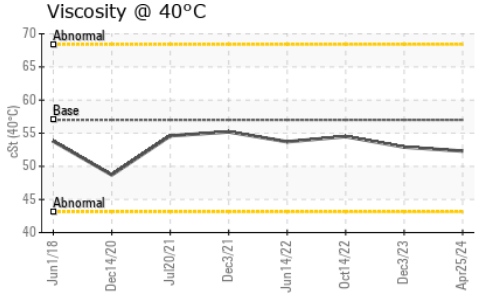
Non-ferrous Metals



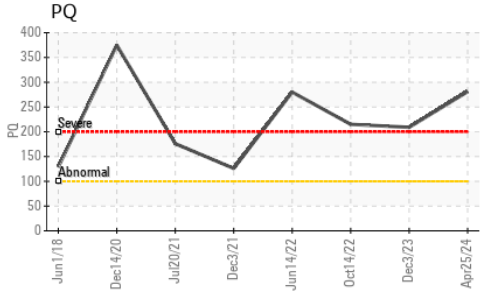
Ferrous Alloys



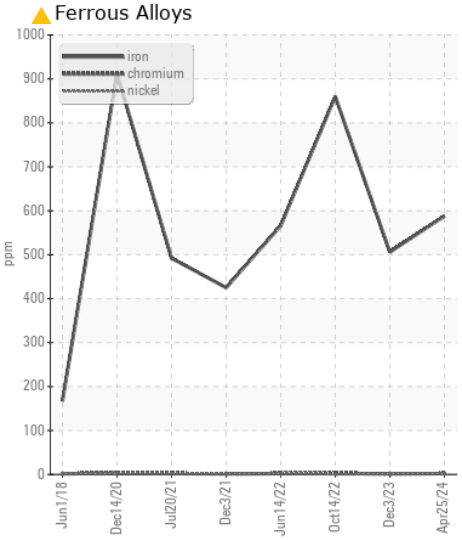
Viscosity @ 40°C



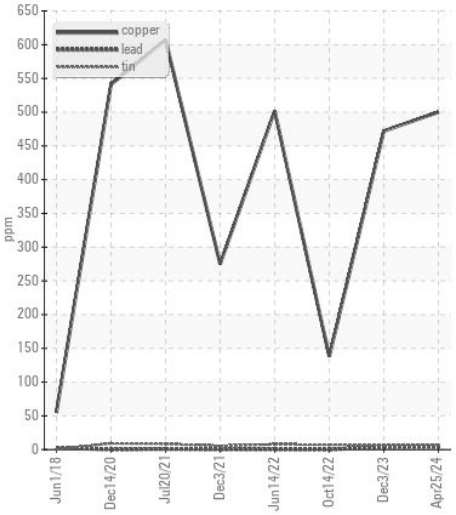
PQ



Ferrous Alloys



Non-ferrous Metals



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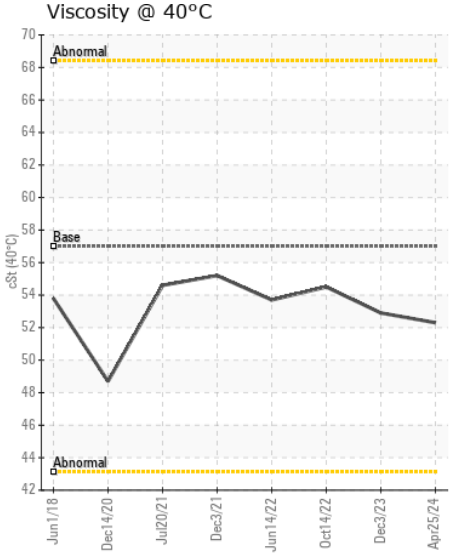
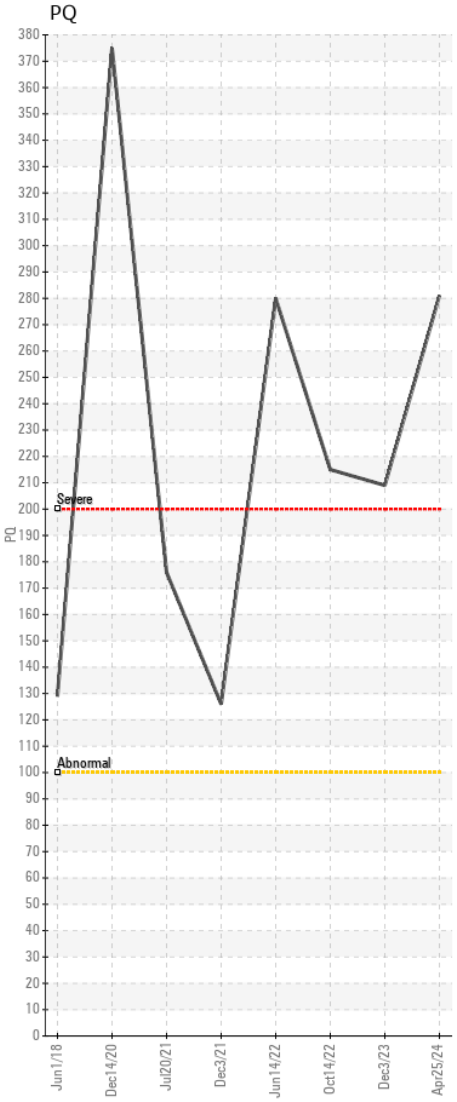


PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207060
Lab Number : 06161728
Unique Number : 10997151
Test Package : CONST (Additional Tests: PQ)

Received : 26 Apr 2024
Tested : 28 Apr 2024
Diagnosed : 29 Apr 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)

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