James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 260E 1DW260ETHHF679495
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Replaced damaged parts, performed system clean up, filtered oil and topped off with new oil, filter caddie reading at clean was 15/13/12)

WEAR

All component wear rates are normal.

CONTAMINATION

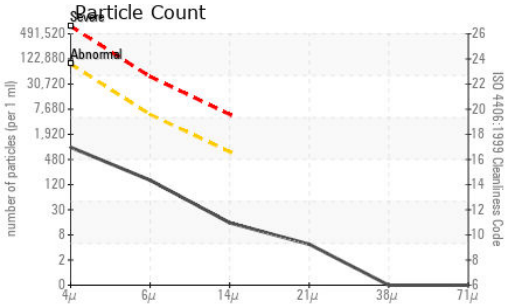
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

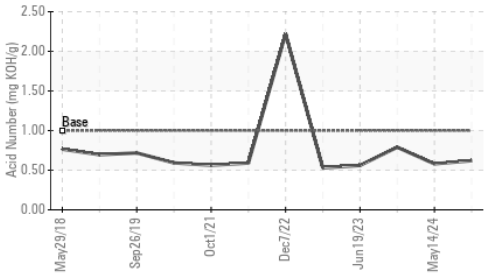
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207192	JR0207154	JR0206831
Sample Date		Client Info		22 May 2024	14 May 2024	01 Apr 2024
Machine Age	hrs	Client Info		4487	4487	4436
Oil Age	hrs	Client Info		4487	4487	424
Filter Age	hrs	Client Info		1	4487	424
Oil Changed		Client Info		Filtered	Not Changd	Not Changd
Filter Changed		Client Info		Changed	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184	>50	6	16	13
Iron	ppm	ASTM D5185m	>71	2	7	10
Chromium	ppm	ASTM D5185m	>11	<1	2	2
Nickel	ppm	ASTM D5185m	>6	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>11	0	2	2
Lead	ppm	ASTM D5185m	>13	0	<1	<1
Copper	ppm	ASTM D5185m	>21	<1	2	2
Tin	ppm	ASTM D5185m	>5	0	<1	1
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	>24	<1	2	3
Potassium	ppm	ASTM D5185m	>20	0	2	3
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	825	2492	144
Particles >6µm		ASTM D7647	>5000	135	62	28
Particles >14µm		ASTM D7647	>640	13	6	4
Particles >21µm		ASTM D7647	>160	4	1	1
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	17/14/11	18/13/10	14/12/9
Silt	scalar	*Visual	NONE	NONE	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	>0.075	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>21	1	1	3
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	2	3
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		4	7	11
Calcium	ppm	ASTM D5185m	87	144	201	299
Phosphorus	ppm	ASTM D5185m	727	640	666	1010
Zinc	ppm	ASTM D5185m	900	830	834	1184
Sulfur	ppm	ASTM D5185m	1500	1871	1830	2698
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.62	0.58	0.79
Visc @ 40°C	cSt	ASTM D445	65	58.8	58.4	58.8

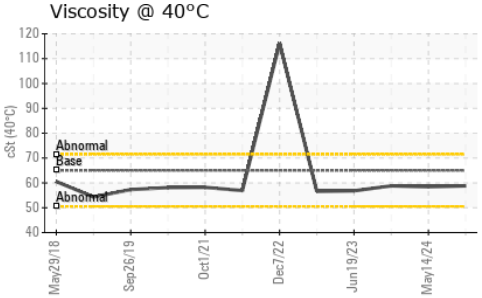
Particle Count



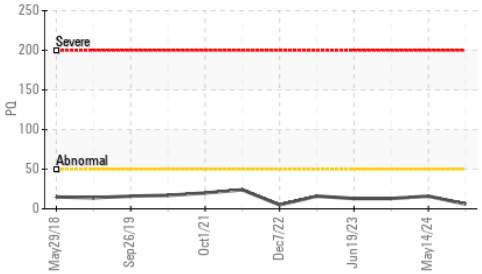
Acid Number



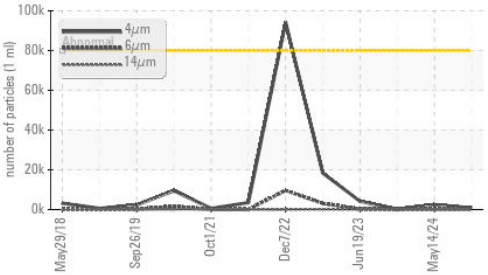
Viscosity @ 40°C



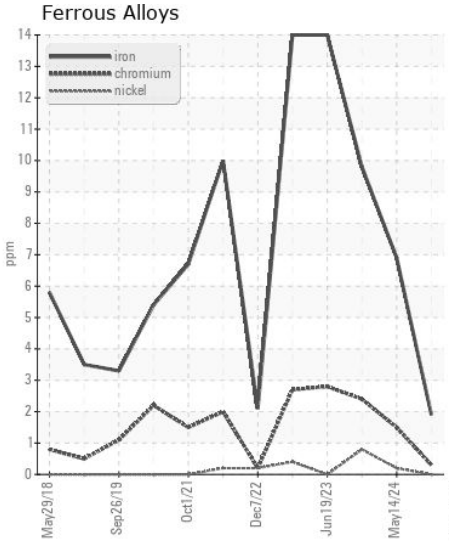
PQ



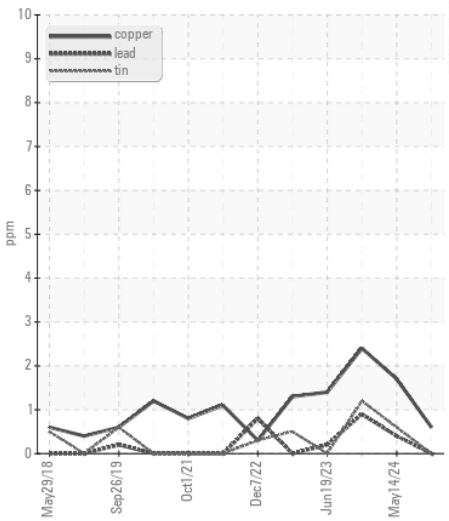
Particle Trend



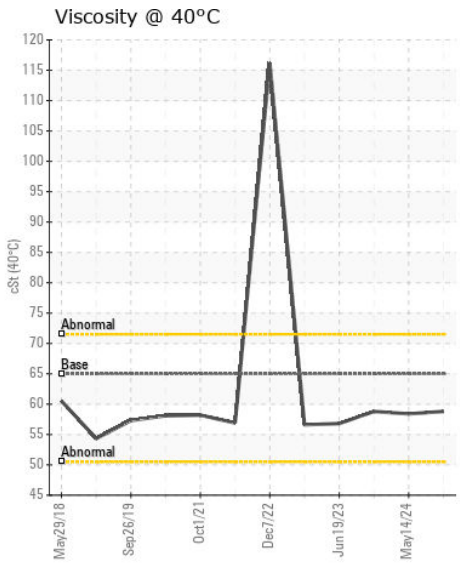
Ferrous Alloys



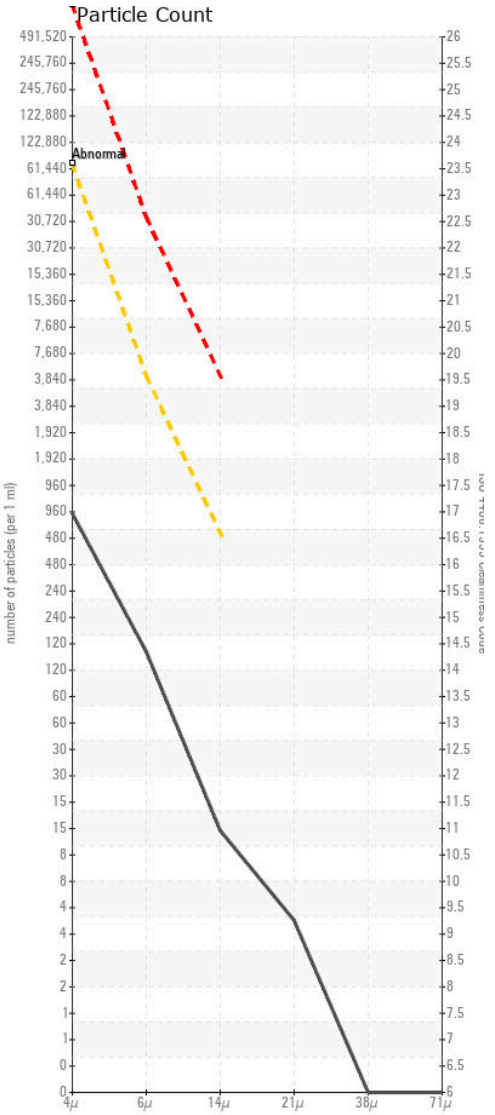
Non-ferrous Metals



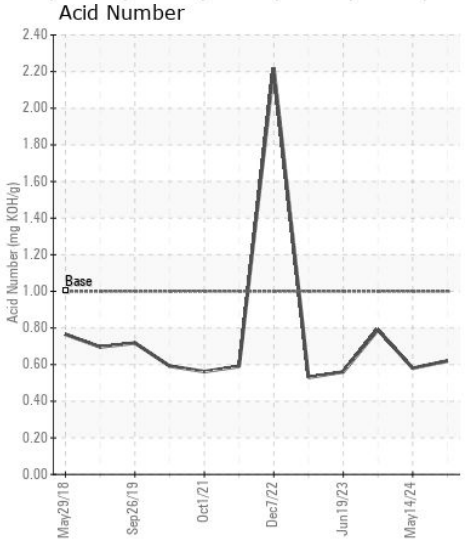
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207192
Lab Number : 06190364
Unique Number : 11047116
Test Package : CONST (Additional Tests: PQ)

Received : 24 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Don Baldridge

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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