James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 5065E 1PY5065EHJJ105923
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

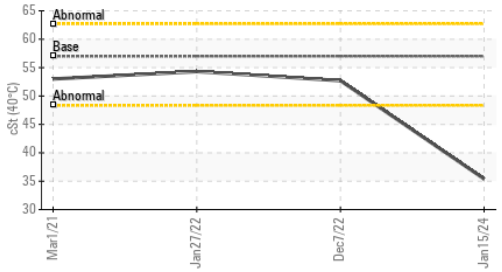
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

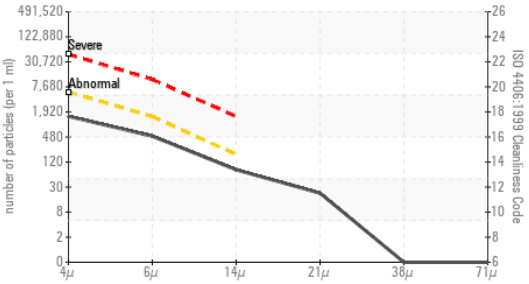
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189663	JR0135537	JR0093301
Sample Date		Client Info		15 Jan 2024	07 Dec 2022	27 Jan 2022
Machine Age	hrs	Client Info		357	0	253
Oil Age	hrs	Client Info		0	0	253
Filter Age	hrs	Client Info		0	0	253
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
PQ		ASTM D8184		15	21	28
Iron	ppm	ASTM D5185m	>20	<1	▲ 38	▲ 32
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	1	2
Lead	ppm	ASTM D5185m	>10	0	3	4
Copper	ppm	ASTM D5185m	>75	0	49	39
Tin	ppm	ASTM D5185m	>10	0	1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	2	5	6
Potassium	ppm	ASTM D5185m	>20	2	3	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1318	▲ 130879	▲ 126876
Particles >6µm		ASTM D7647	>1300	440	▲ 13030	▲ 8187
Particles >14µm		ASTM D7647	>160	69	31	13
Particles >21µm		ASTM D7647	>40	19	7	2
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13	▲ 24/21/12	▲ 24/20/11
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	4	8
Boron	ppm	ASTM D5185m	6	0	79	87
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	0	0	2	2
Manganese	ppm	ASTM D5185m		0	2	2
Magnesium	ppm	ASTM D5185m	145	106	42	48
Calcium	ppm	ASTM D5185m	3570	3381	3553	3414
Phosphorus	ppm	ASTM D5185m	1290	1066	1077	1080
Zinc	ppm	ASTM D5185m	1640	1254	1332	1390
Sulfur	ppm	ASTM D5185m		3910	9877	8589
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.49	1.05	0.92
Visc @ 40°C	cSt	ASTM D445	57.0	▲ 35.4	52.7	54.3

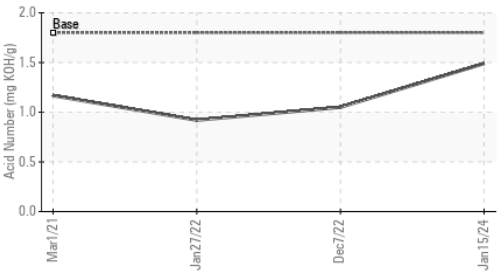
Viscosity @ 40°C



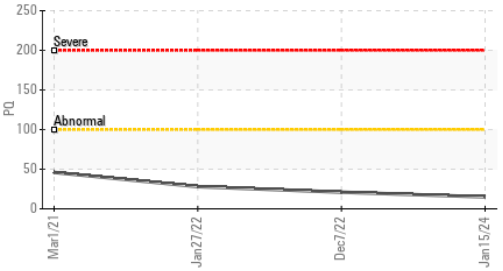
Particle Count



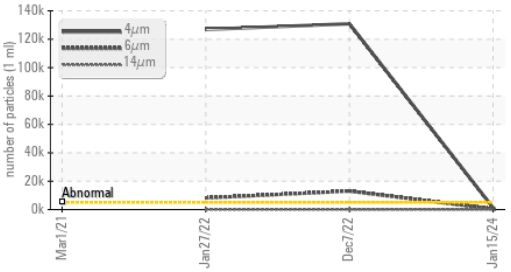
Acid Number



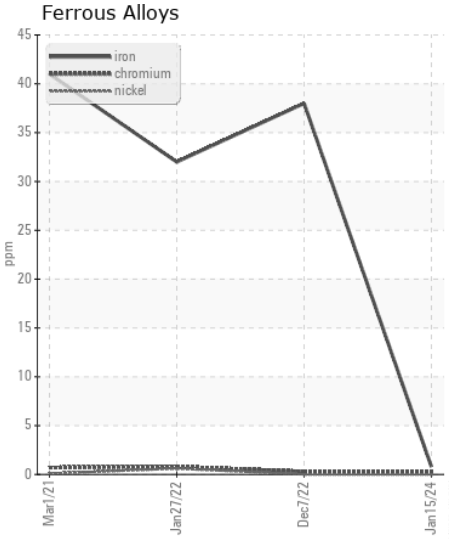
PQ



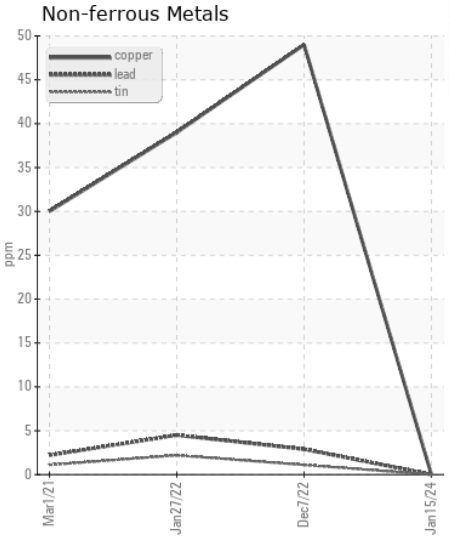
Particle Trend



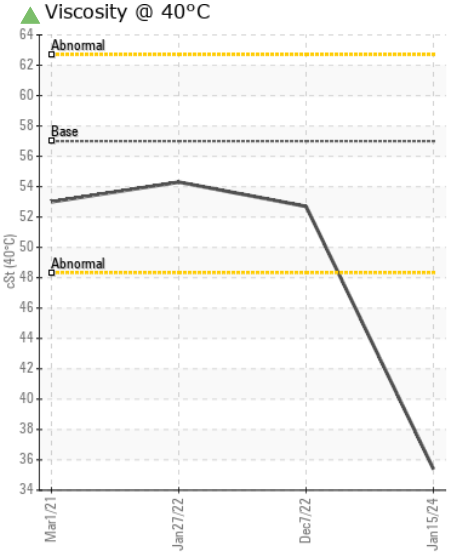
Ferrous Alloys



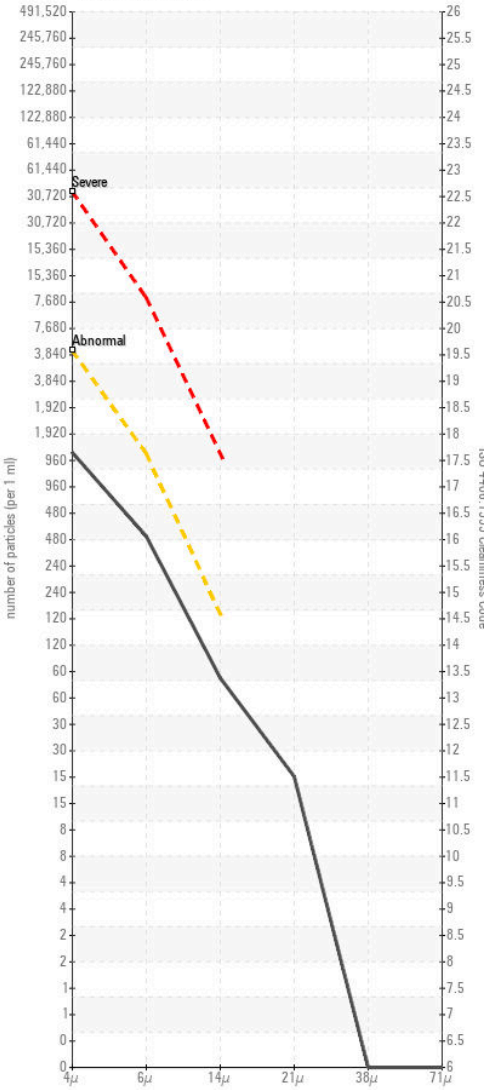
Non-ferrous Metals



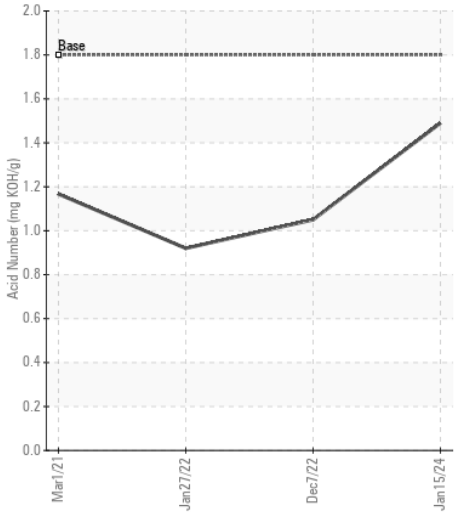
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189663 **Recieved** : 17 Jan 2024
Lab Number : 06063499 **Diagnosed** : 19 Jan 2024
Unique Number : 10834881 **Diagnostician** : Don Baldridge
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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