



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Store 9 - Marietta

Machine Id

BULK HYDRAULIC OIL BULK HYDRAULIC OIL MARIETTA BULK HYGARD

Component

Bulk Fluid Tank

Fluid

JOHN DEERE HY-GARD HYD/TRANS (500 GAL)

RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0040000	LEC0039992	LEC0038771
Sample Date		Client Info		17 Mar 2023	07 Mar 2023	20 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	Not Changd	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

PQ		ASTM D8184		7	12	3
Iron	ppm	ASTM D5185m		2	1	1
Chromium	ppm	ASTM D5185m		<1	<1	0
Nickel	ppm	ASTM D5185m		<1	3	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	6	2
Aluminum	ppm	ASTM D5185m		2	5	0
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m		0	<1	<1
Tin	ppm	ASTM D5185m		0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

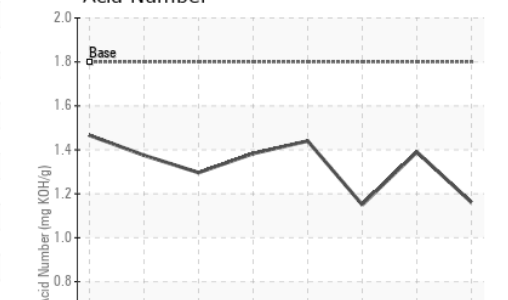
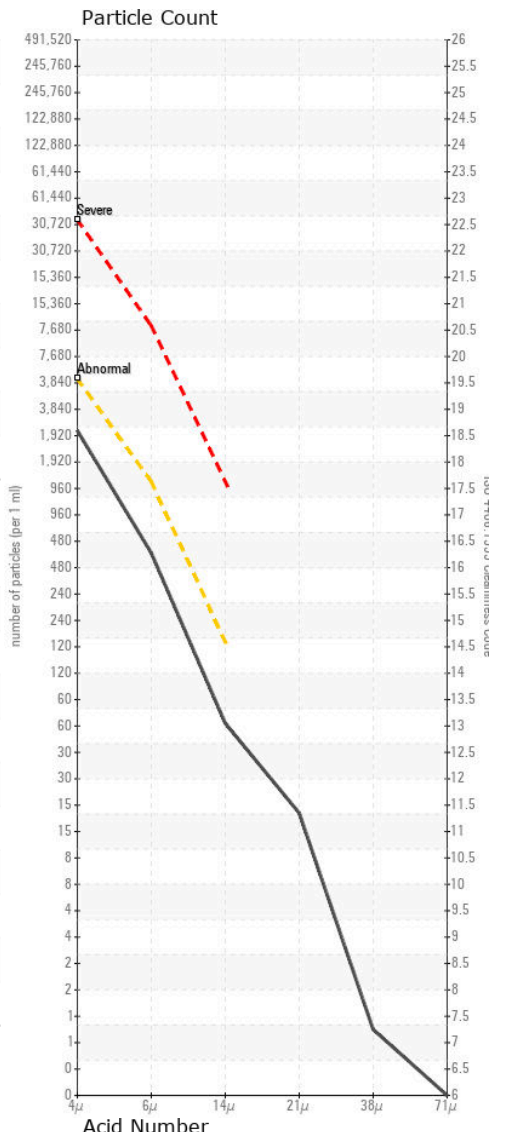
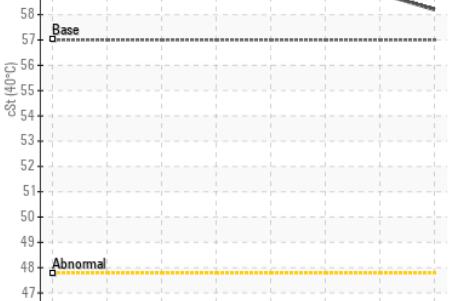
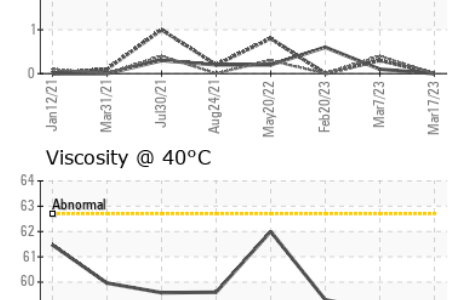
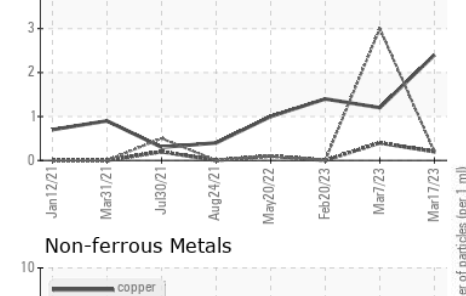
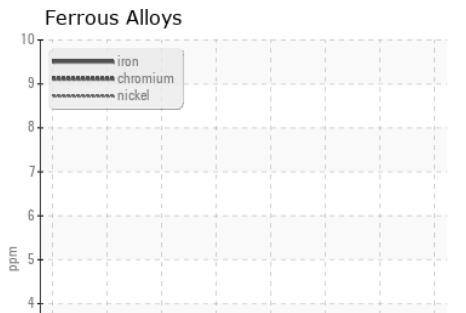
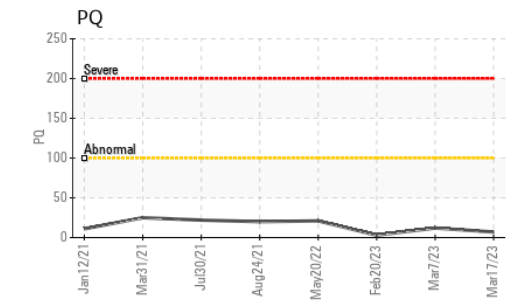
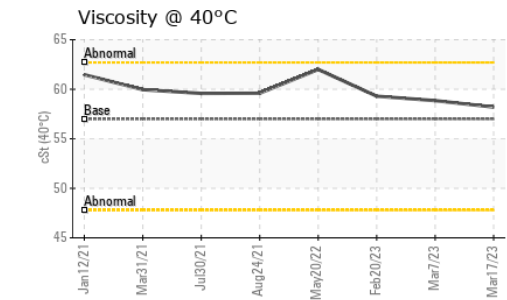
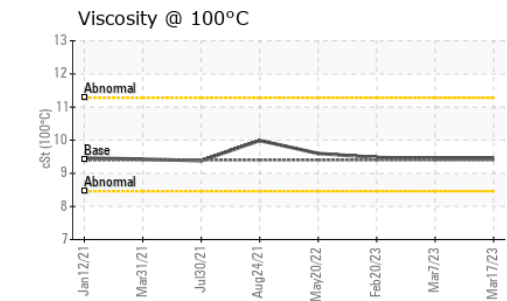
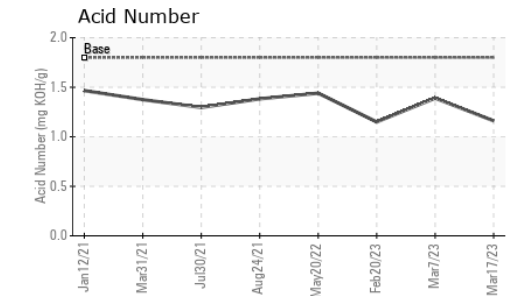
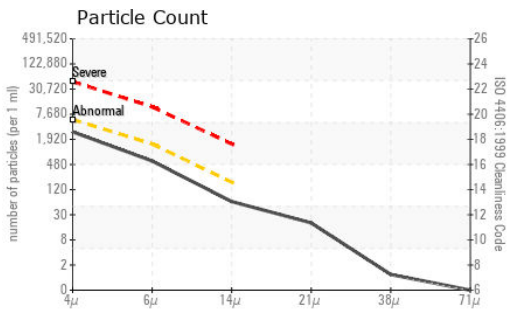
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m		6	6	4
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	2537	▲ 6780	▲ 6951
Particles >6µm		ASTM D7647	>1300	511	1124	▲ 2099
Particles >14µm		ASTM D7647	>160	55	48	137
Particles >21µm		ASTM D7647	>40	17	7	39
Particles >38µm		ASTM D7647	>10	1	0	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/13	▲ 20/17/13	▲ 20/18/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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		NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m	6	7	8	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	4	3
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	145	99	103	100
Calcium	ppm	ASTM D5185m	3570	3074	3224	3232
Phosphorus	ppm	ASTM D5185m	1290	924	945	943
Zinc	ppm	ASTM D5185m	1640	1086	1148	1165
Sulfur	ppm	ASTM D5185m		2877	3380	3385
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.161	1.39	1.15
Visc @ 40°C	cSt	ASTM D445	57.0	58.2	58.85	59.3
Visc @ 100°C	cSt	ASTM D445	9.4	9.45	9.44	9.48
Viscosity Index (VI)	Scale	ASTM D2270	147	144	142	142



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : LEC0040000 Received : 21 Mar 2023
 Lab Number : 05798145 Tested : 27 Mar 2023
 Unique Number : 10387829 Diagnosed : 27 Mar 2023 - Doug Bogart
 Test Package : CONST (Additional Tests: KV100, PQ, PrtCount, VI)

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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