

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area [W46763] JOHN DEERE 644K 1DW644KZCED662172

Component **Front Differential**

JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

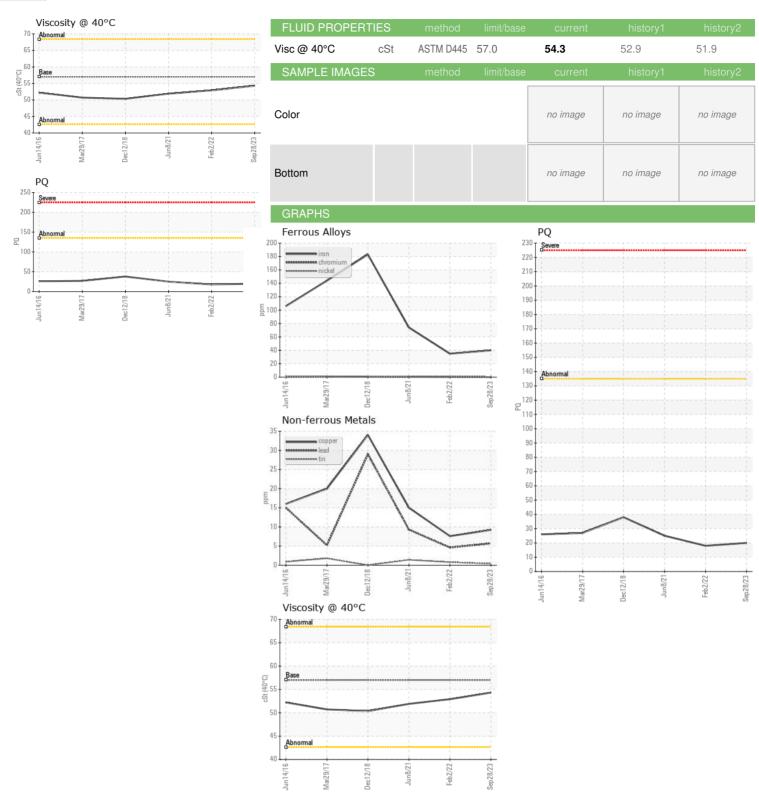
Fluid Condition

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

D HYD/TRANS (6 GAL)	Jun 2016	Mar2017 Dec2018	Jun2021 Feb2022	Sep2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179192	JR0105906	JR0088886
Sample Date		Client Info		28 Sep 2023	02 Feb 2022	08 Jun 2021
Machine Age	hrs	Client Info		7961	5991	5036
Oil Age	hrs	Client Info		0	1000	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>135	20	18	25
Iron	ppm	ASTM D5185m	>420	40	35	74
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>5	5	3	0
Lead	ppm		>95	6	5	9
Copper	ppm	ASTM D5185m	>170	9	8	15
Tin	ppm	ASTM D5185m	>170	<1	<1	1
Antimony		ASTM D5185m	>4		<1	0
Vanadium	ppm	ASTM D5185m	>4	0	0	<1
	ppm					
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	2	3	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	145	93	110	93
Calcium	ppm	ASTM D5185m	3570	3207	3825	3328
Phosphorus	ppm	ASTM D5185m	1290	1017	1158	978
Zinc	ppm	ASTM D5185m	1640	1211	1230	1151
Sulfur	ppm	ASTM D5185m		3903	3286	3194
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	5	5	7
Sodium	ppm	ASTM D5185m		5	2	5
Potassium	ppm	ASTM D5185m	>20	0	11	<1
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ICE VVale	Scalai	visuai		ILG	INLG	INLU



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Laboratory Sample No. Lab Number Unique Number

: 05965605

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0179192 Received : 29 Sep 2023 Diagnosed : 10672156

: 05 Oct 2023 Diagnostician : Doug Bogart

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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