

OIL ANALYSIS REPORT

Sample Rating Trend





[W46763] JOHN DEERE 644K 1DW644KZCED662172

Transmission

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

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.

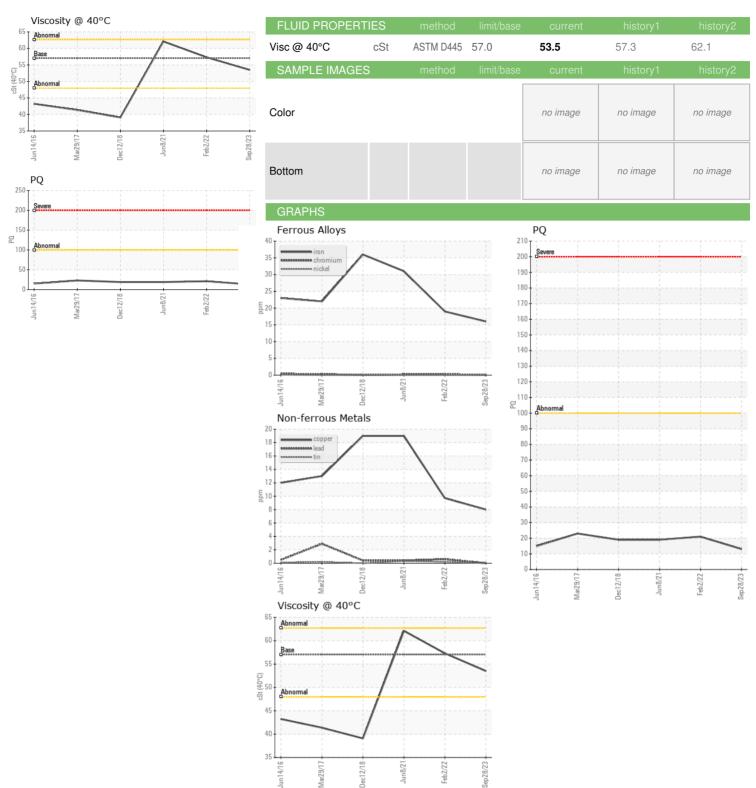
Fluid Condition

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

D HYD/IRANS (6 LIR)	Jun2016	Mar2017 Dec2018	Jun2021 Feb2022	Sep 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179191	JR0105904	JR0088885
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	>100	13	21	19
Iron	ppm	ASTM D5185m	>61	16	19	31
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	5	1	1
Lead	ppm	ASTM D5185m		0	<1	<1
Copper	ppm	ASTM D5185m	>100	8	10	19
Tin	ppm	ASTM D5185m	>3	0	<1	<1
Antimony	ppm	ASTM D5185m	70		0	0
Vanadium		ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	15	35	21
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	2	2
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	145	88	73	61
Calcium	ppm	ASTM D5185m	3570	3245	3356	2986
Phosphorus	ppm	ASTM D5185m	1290	1043	1089	997
Zinc	ppm	ASTM D5185m	1640	1262	1269	1132
Sulfur	ppm	ASTM D5185m		4625	5177	5964
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>21	6	8	9
Sodium	ppm	ASTM D5185m	>30	3	6	9
Potassium	ppm	ASTM D5185m	>20	0	<1	1
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.075	NEG	NEG	NEG
Free Water	scalar	*Visual	. 0.070	NEG	NEG	NEG
1 100 TTAICI	Joalai	Violal		1120	INLU	INCO



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Laboratory Sample No. Lab Number

Unique Number

: JR0179191 : 05965581 : 10672132 Test Package : CONST (Additional Tests: PQ)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Sep 2023 Diagnosed : 05 Oct 2023

Diagnostician : Doug Bogart

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.

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG

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Contact/Location: DAVID ZIEG - JAMASH

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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