

## **OIL ANALYSIS REPORT**

Sample Rating Trend

# JOHN DEERE 624L 1DW624LZALF707698

Rear Differential

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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

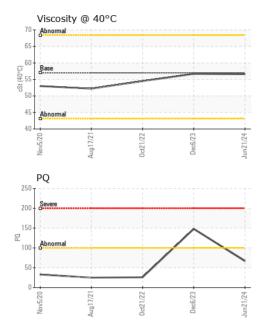
#### Fluid Condition

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

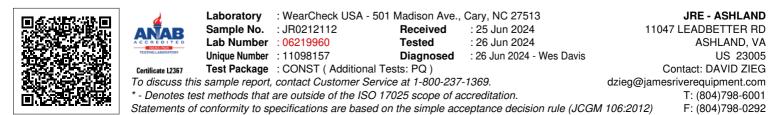
		1012020	Augzozi		3002024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0212112	JR0179902	JR0147443
Sample Date		Client Info		21 Jun 2024	06 Dec 2023	21 Oct 2022
Machine Age	hrs	Client Info		6974	5987	3975
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		67	148	26
Iron	ppm	ASTM D5185m	>500	206	591	185
Chromium	ppm	ASTM D5185m	>10	1	4	<1
Nickel	ppm	ASTM D5185m	>10	2	3	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	4
Lead	ppm	ASTM D5185m	>25	17	21	<b>1</b> 20
Copper	ppm	ASTM D5185m	>100	20	23	54
Tin	ppm	ASTM D5185m	>10	0	<1	3
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	7	0	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	1	1
Manganese	ppm	ASTM D5185m		2	5	2
Magnesium	ppm	ASTM D5185m	145	95	12	80
Calcium	ppm	ASTM D5185m	3570	2382	1137	2957
Phosphorus	ppm	ASTM D5185m	1290	984	700	993
Zinc	ppm	ASTM D5185m	1640	1032	661	1100
Sulfur	ppm	ASTM D5185m		3629	2265	3995
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	6	18	6
Sodium	ppm	ASTM D5185m		3	2	0
Potassium	ppm	ASTM D5185m	>20	2	0	2



# **OIL ANALYSIS REPORT**



White Metal scalar 'Visual NONE MODER NONE Yellow Metal scalar 'Visual NONE NONE NONE Scalar 'Visual NONE NONE NONE LIGHT Debris scalar 'Visual NONE NONE NONE Sand/Dirt scalar 'Visual NONE NONE NONE Sand/Dirt scalar 'Visual NONE NONE NONE Appearance scalar 'Visual NORML NORML NORML NORML Odor scalar 'Visual NORML NORML NORML NORML NORML Emulsified Water scalar 'Visual NORML NORML NORML NORML Meg NEG Free Water scalar 'Visual Scalar 'Visual NORML NORML NORML Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7 SAMPLE IMAGES method imit/base current history1 Color no image no image Bottom no image no image	history2	history1	current	limit/base	method		VISUAL
Precipitate scalar *Visual NONE NONE NONE LIGHT Silt scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Codor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG Free Water scalar *Visual NORML NORML NORML NORML Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7 SAMPLE IMAGES method imit/base current history1 Color no image no image Bottom no image no image Rear of the start of t	LIGHT	NONE	MODER	NONE	*Visual	scalar	White Metal
Silt scalar Visual NONE NONE LIGHT Debris scalar Visual NONE NONE NONE Appearance scalar Visual NORML NORML NORML Appearance scalar Visual NORML NORML NORML NORML Odor scalar Visual NORML NORML NORML NORML MORML NORML	NONE	NONE	NONE	NONE	*Visual	scalar	Yellow Metal
Debris scalar Visual NONE NONE NONE NONE Sand/Dirt scalar Visual NONE NONE NONE NONE Appearance scalar Visual NORML NORML NORML NORML NORML Emulsified Water scalar Visual >.2 NEG NEG Free Water scalar Visual Visual >.2 NEG NEG FLUID PROPERTIES method imit/base current history1 Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7 SAMPLE IMAGES method imit/base current history1 Color no image no image Bottom no image no image	NONE	NONE	NONE	NONE	*Visual	scalar	Precipitate
Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML Scalar *Visual >.2 NEG NEG Free Water scalar *Visual >.2 NEG NEG NEG Scalar *Visual >.2 NEG NEG Scalar *Visual *Scalar *Visual >.2 NEG NEG Scalar *Visual *Scalar *Scalar *Visual *Scalar *Visual *Scalar *Visual *Scalar *Scalar *Visual *Scalar *Visual *Scalar *Scalar *Visual *Scalar *Scala	NONE	LIGHT	NONE	NONE	*Visual	scalar	Silt
Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG Free Water scalar *Visual NORML NORML NORML NORML Scalar *Visual >.2 NEG NEG FLUID PROPERTIES method limit/base current history1 Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7 SAMPLE IMAGES method limit/base current history1 Color no image no image Bottom no image no image Non-ferrous Alloys Viscosity @ 40°C Viscosity @ 40°C	NONE	NONE	NONE	NONE	*Visual	scalar	Debris
Odor scalar 'Visual NORML NORML NORML NORML   Emulsified Water scalar *Visual >.2 NEG NEG NEG   Free Water scalar *Visual >.2 NEG NEG NEG   Free Water scalar *Visual >.2 NEG NEG NEG   Free Water scalar *Visual Scalar *Visual NORML NORML NORML   Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7   SAMPLE IMAGES method limit/base current history1   Color no image no image no image   Bottom no image no image no image   Non-ferrous Metals - - - -   Output - - - - -   Viscosity @ 40°C - - - - -   Output - - - - - -   Output - - - - -	NONE	NONE	NONE	NONE	*Visual	scalar	Sand/Dirt
Emulsified Water scalar *Visual >.2 NEG NEG Free Water scalar *Visual *Visual NEG NEG FLUID PROPERTIES method limit/base current history1 Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7 SAMPLE IMAGES method limit/base current history1 Color no image no image Bottom no image no image GRAPHS Ferrous Alloys Output of the start of	NORML	NORML	NORML	NORML	*Visual	scalar	Appearance
Free Water scalar 'Visual NEG NEG   FLUID PROPERTIES method limit/base current history1   Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7   SAMPLE IMAGES method limit/base current history1   Color no image no image no image   Bottom no image no image no image   Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C	NORML	NORML	NORML	NORML	*Visual	scalar	Odor
FLUID PROPERTIES method limit/base current history1   Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7   SAMPLE IMAGES method limit/base current history1   Color no image no image no image   Bottom no image no image no image   Non-ferrous Alloys Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C   Output Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C	NEG	NEG	NEG	>.2	*Visual	scalar	Emulsified Water
Visc @ 40°C cSt ASTM D445 57.0 56.6 56.7 SAMPLE IMAGES method limit/base current history1 Color no image no image Bottom no image no image GRAPHS Ferrous Alloys 0 0 0 0 0 0 0 0 0 0 0 0 0	NEG	NEG	NEG		*Visual	scalar	Free Water
SAMPLE IMAGES method limit/base current history1   Color no image no image no image   Bottom no image no image no image   GRAPHS Ferrous Alloys Image Image Image   Mon-ferrous Metals Image Image Image Image   Viscosity @ 40°C Image Image Image Image	history2	history1	current	limit/base	method	TIES	FLUID PROPER
Color no image no image Bottom no image no image GRAPHS Ferrous Alloys 0 0 0 0 0 0 0 0 0 0 0 0 0	54.5	56.7	56.6	57.0	ASTM D445	cSt	Visc @ 40°C
Bottom no image no image	history2	history1	current	limit/base	method	S	SAMPLE IMAGE
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GRAPHS Ferrous Alloys							
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Anormal Ano			)T ::	220			Ferrous Alloys
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Non-ferrous Metals	~			1.0			0
Non-ferrous Metals	/		)-	4Z/1Z 12	Dec6/23	0ct21/22	Nov5/20 Aug17/21
Viscosity @ 40°C		/	) - O			S	
Viscosity @ 40°C		/					copper
Viscosity @ 40°C		/				~	tin tin
Occ21122 Nov5/20 Aproma Aug17/2124 Aug17/2124 CCC CCC1/22 CCC CCC1/22 CCC CCC1/22 CCC CCC1/22 CCC CCC1/22 CCC CCC CCC CCC CCC CCC CCC				21			
Viscosity @ 40°C	/23	/22	/20	1/24	6/23	1/22	
Base 5 5 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Dec6/23	0ct21	Nov5 Aug17	Juni	Der	Octź	A
5							
					1		ų.
					 		Base
							5
5 + Abnormal							0+
Nov5/201 Aug17/21 Dec6/23 Jun21/24							5 - Abnormal



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