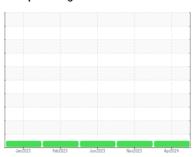


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



D-234
Component
Left Final Drive

Machine Id

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. 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.

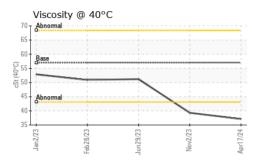
Fluid Condition

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

Sample Number Client Info WC0828506 WC0828481 WC07858mple Date Client Info 17 Apr 2024 02 Nov 2023 29 Jun Machine Age hrs Client Info 1085 556 1146 Oil Changed hrs Client Info 1085 556 1146 Oil Changed Normal	AL)		Jan 2023	Feb 2023	Jun2023 Nov2023	Apr2024	
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 1085 556 556 1146 Changed Northanged Client Info 1085 556 Northanged Changed Northanged	Sample Number		Client Info		WC0828506	WC0828481	WC0780365
Machine Age hrs Client Info 1885 556 1146 1885 556 1146 1885 556 1146 1885 556 1146 1885 556 1146 1885 556 1146 1885 1885 1885 1885 1885 1888			Client Info		17 Apr 2024	02 Nov 2023	29 Jun 2023
Client Info	•	hrs	Client Info		2231	1702	1146
NORMAL N	Oil Age	hrs	Client Info		1085	556	1146
NORMAL N	-		Client Info		Changed	Not Changd	Changed
WEAR METALS	-				_	NORMAL	NORMAL
WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >500 116 75 150 Chromium ppm ASTM D5185m >10 2 <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
Concomium	Water		WC Method	>0.2	NEG	NEG	NEG
Chromium	WEAR METALS		method	limit/base	current	history1	history2
A	ron	ppm	ASTM D5185m	>500	116	75	150
ASTM D5185m	Chromium	ppm	ASTM D5185m	>10	2	<1	3
Silver	lickel	ppm	ASTM D5185m	>10	0	0	0
Astrophysical Color	itanium	ppm	ASTM D5185m		<1	<1	<1
Aluminum	Silver	ppm	ASTM D5185m		0	0	0
December	Aluminum		ASTM D5185m	>25	4	<1	3
Description	.ead				2	<1	6
All	Copper		ASTM D5185m	>50	<1	0	<1
Anadium ppm ASTM D5185m <1 0 <1 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 his Boron ppm ASTM D5185m 6 101 110 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 1 0 2 Magnesium ppm ASTM D5185m 2 1 5 Magnesium ppm ASTM D5185m 22 15 104 Valcium ppm ASTM D5185m 22 15 104 Phosphorus ppm ASTM D5185m 3570 3279 3054 3498 Phosphorus ppm ASTM D5185m 1640 1268 1177 1299 Bullfur ppm ASTM D5185m 4026 2894 4393 C							
Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 his Boron ppm ASTM D5185m 6 101 110 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 1 0 2 1 5 Magnesium ppm ASTM D5185m 2 1 5 104 2 15 104 2 104 2 104 2 104 2 104 2 104 2 104 2 104 2 104 2 104 2 104 2 104 2 104 2 104 2 104 2 2 1 5 104 2 104 2 2 1 104 2 2 1 104 2 2 1 <td>/anadium</td> <td></td> <td>ASTM D5185m</td> <td></td> <th><1</th> <td>0</td> <td><1</td>	/anadium		ASTM D5185m		<1	0	<1
Soron ppm ASTM D5185m 6 101 110 0 0 0 0 0 0 0							
Description	ADDITIVES		method	limit/base	current	history1	history2
Starium	Boron	ppm	ASTM D5185m	6	101	110	0
Molybdenum ppm ASTM D5185m 0 1 0 2 Manganese ppm ASTM D5185m 2 1 5 Magnesium ppm ASTM D5185m 145 22 15 104 Calcium ppm ASTM D5185m 3570 3279 3054 3498 Phosphorus ppm ASTM D5185m 1290 1075 984 1053 Zinc ppm ASTM D5185m 1640 1268 1177 1293 Zinc ppm ASTM D5185m 1640 1268 1177 1293 CONTAMINANTS method limit/base current history1 his CONTAMINANTS method limit/base current	Barium		ASTM D5185m	0	0	0	0
Manganese ppm ASTM D5185m 2 1 5 Magnesium ppm ASTM D5185m 145 22 15 104 Calcium ppm ASTM D5185m 3570 3279 3054 3498 Chosphorus ppm ASTM D5185m 1290 1075 984 1053 Zinc ppm ASTM D5185m 1640 1268 1177 1293 Zinc ppm ASTM D5185m 4026 2894 4393 CONTAMINANTS method limit/base current history1 his CONTAMINANTS method limit/base current history1	Nolybdenum		ASTM D5185m	0	1	0	2
Magnesium ppm ASTM D5185m 145 22 15 104 Calcium ppm ASTM D5185m 3570 3279 3054 3498 Phosphorus ppm ASTM D5185m 1290 1075 984 1053 Zinc ppm ASTM D5185m 1640 1268 1177 1293 Gulfur ppm ASTM D5185m 4026 2894 4393 CONTAMINANTS method limit/base current history1 his Goldium ppm ASTM D5185m >75 23 17 20 Goldium ppm ASTM D5185m >75 23 17 20 Goldium ppm ASTM D5185m >20 2 0 8 VISUAL method limit/base current history1 his Visual NONE NONE NONE NONE Visual NONE NONE NONE NONE Visual	-					1	5
Calcium ppm ASTM D5185m 3570 3279 3054 3498 Phosphorus ppm ASTM D5185m 1290 1075 984 1053 Zinc ppm ASTM D5185m 1640 1268 1177 1293 Gulfur ppm ASTM D5185m 4026 2894 4393 CONTAMINANTS method limit/base current history1 his Golium ppm ASTM D5185m >75 23 17 20 Godium ppm ASTM D5185m >6 5 4 Potassium ppm ASTM D5185m >20 2 0 8 VISUAL method limit/base current history1 his	•			145		15	
Phosphorus ppm ASTM D5185m 1290 1075 984 1053 Zinc ppm ASTM D5185m 1640 1268 1177 1293 Gulfur ppm ASTM D5185m 4026 2894 4393 CONTAMINANTS method limit/base current history1 his Gilicon ppm ASTM D5185m >75 23 17 20 Godium ppm ASTM D5185m 6 5 4 Potassium ppm ASTM D5185m >20 2 0 8 VISUAL method limit/base current history1 his	-						3495
Cinc ppm ASTM D5185m 1640 1268 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1296 1177 1187 1177 1187 1							
Sulfur ppm ASTM D5185m 4026 2894 4393 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >75 23 17 20 Sodium ppm ASTM D5185m 6 5 4 Potassium ppm ASTM D5185m >20 2 0 8 VISUAL method limit/base current history1 his White Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML NORML NORML NORML <td>•</td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>	•						
CONTAMINANTS method limit/base current history1 history1 history1 ppm ASTM D5185m >75 23 17 20 Sodium ppm ASTM D5185m >75 23 17 20 8 20 2 0 8 8 20 2 0 0 8 8 20 2 0 0 8 8 20 2 0 0 8 8 20 2 0 0 8 8 20 2 0 0 8 8 20 2 0 0 8 8 20 2 0 0 8 20 2 0 2				1040			
Silicon ppm ASTM D5185m >75 23 17 20				11 11 11			
Sodium ppm ASTM D5185m 6 5 4 Potassium ppm ASTM D5185m >20 2 0 8 VISUAL method limit/base current history1 his White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE							history2
Potassium ppm ASTM D5185m >20 2 0 8 VISUAL method limit/base current history1 his White Metal scalar *Visual NONE NONE MODER NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE MODER NONE NONE NONE NONE NONE NONE NONE NO				>/5			
VISUAL method limit/base current history1 histor							
White Metal scalar *Visual NONE NONE MODER NONE Vellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE MODER NONE LIGH Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML		ppm	ASTM D5185m		2	0	8
Vellow Metal scalar *Visual NONE LIGI Debris scalar *Visual NONE NORML NORML <th< td=""><td></td><td></td><td></td><td></td><th></th><td>•</td><td>history2</td></th<>						•	history2
Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE MODER NONE LIGHT NONE Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON							NONE
Silt scalar *Visual NONE MODER NONE LIGI Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML							NONE
Debris scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	•						NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON		scalar					LIGHT
Appearance scalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML	Debris	scalar	*Visual	NONE		NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water scalar *Visual >0.2 NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water scalar *Visual NEG NEG NEG	ree Water	scalar	*Visual		NEG	NEG	NEG
3:16) Rev: 1 Contact/Location: NICK DIXON - D	3:16) Rev: 1					cation: NICK DI	XON - DUKRA

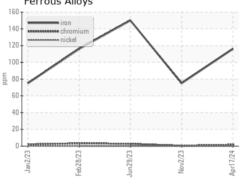


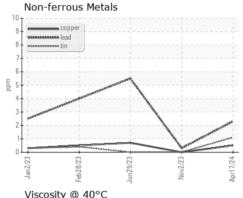
OIL ANALYSIS REPORT

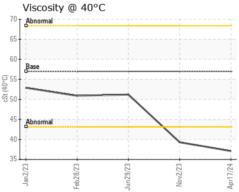


FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	37.1	39.3	51.2
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						

Ferrous Alloys









Certificate 12367

Laboratory

Sample No. : WC0828506 Lab Number : 06156448 Unique Number : 10991871

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 22 Apr 2024 : 23 Apr 2024 : 24 Apr 2024 - Don Baldridge

DUKE LAZZARA 4201 FAYETTEVILLE RD RALEIGH, NC

US 27603 Contact: NICK DIXON NICK.DIXON@DUKELAZZAM.COM

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) T: (919)760-7797