

PROBLEM SUMMARY

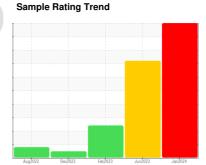
WEAR

JOHN DEERE 26143

Component

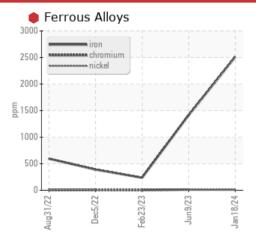
Left Final Drive

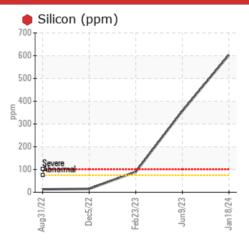
CHEVRON DELO GEAR ESI OIL 80W90 (--- QTS)

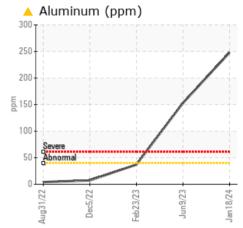




COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	ABNORMAL			
Iron	ppm	ASTM D5185m	>750	2509	<u> </u>	237			
Chromium	ppm	ASTM D5185m	>9	<u> </u>	<u> </u>	3			
Silicon	ppm	ASTM D5185m	>75	603	357	4 90			

Customer Id: MSCDUR **Sample No.:** WC0882796 Lab Number: 06073378 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

Action Status Date Done By Description Inspect Wear Source --- ? We advise that you inspect for the source(s) of wear. Resample --- ? We recommend an early resample to monitor this condition. Check Dirt Access --- ? We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

09 Jun 2023 Diag: Don Baldridge

DIRT



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



23 Feb 2023 Diag: Sean Felton

DIRT



We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



05 Dec 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





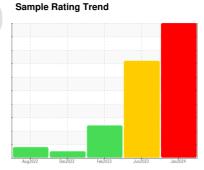
OIL ANALYSIS REPORT

JOHN DEERE 26143

Component

Left Final Drive

CHEVRON DELO GEAR ESI OIL 80W90 (--





DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

QTS)						
,		Aug2022		Feb 2023 Jun 2023	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0882796	WC0786330	WC0756146
Sample Date		Client Info		18 Jan 2024	09 Jun 2023	23 Feb 2023
Machine Age	hrs	Client Info		2994	2200	1562
Oil Age	hrs	Client Info		750	2200	1500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>750	2509	<u> </u>	237
Chromium	ppm	ASTM D5185m	>9	<u> </u>	<u> </u>	3
Nickel	ppm	ASTM D5185m	>10	7	6	<1
Titanium	ppm	ASTM D5185m		13	7	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	248	1 53	A 37
_ead	ppm	ASTM D5185m	>15	0	<1	0
Copper	ppm	ASTM D5185m	>40	3	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	15	85	89	213
Barium	ppm	ASTM D5185m	0	2	2	0
Molybdenum	ppm	ASTM D5185m	0	8	7	3
Manganese	ppm	ASTM D5185m		19	11	4
Magnesium	ppm	ASTM D5185m	0	50	42	36
Calcium	ppm	ASTM D5185m	5	125	99	66
Phosphorus	ppm	ASTM D5185m	600	868	1366	1166
Zinc	ppm	ASTM D5185m	0	84	84	53
Sulfur	ppm	ASTM D5185m	22000	17651	22116	22116
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	603	357	4 90
Sodium	ppm	ASTM D5185m	>51	33	24	8
Potassium	ppm	ASTM D5185m	>20	55	37	13
Water	%	ASTM D6304	>0.075	0.138		
opm Water	ppm	ASTM D6304	>750	1380		
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	>0.075	0.2%	NEG	NEG
	Journal		. 0.070			

Free Water

scalar *Visual

NEG NEG

NEG



OIL ANALYSIS REPORT

