



Area  
**[W49079]**  
 Machine Id  
**EPIROC D60 G18SED0760**  
 Component  
**Left Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0212992</b>	JR0202773	JR0197306
Sample Date		Client Info		<b>21 Apr 2024</b>	20 Feb 2024	16 Jan 2024
Machine Age	hrs	Client Info		<b>10263</b>	9966	9736
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>SEVERE</b>	SEVERE	NORMAL

### WEAR

Bearing and/or bushing wear is indicated. Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>874</b>	942	11
Iron	ppm	ASTM D5185m	>500	<b>▲ 719</b>	▲ 1082	0
Chromium	ppm	ASTM D5185m	>10	<b>6</b>	▲ 9	0
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	▲ 5	0
Titanium	ppm	ASTM D5185m		<b>7</b>	12	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>● 92</b>	● 146	0
Lead	ppm	ASTM D5185m	>25	<b>▲ 97</b>	▲ 126	0
Copper	ppm	ASTM D5185m	>50	<b>▲ 128</b>	▲ 154	<1
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

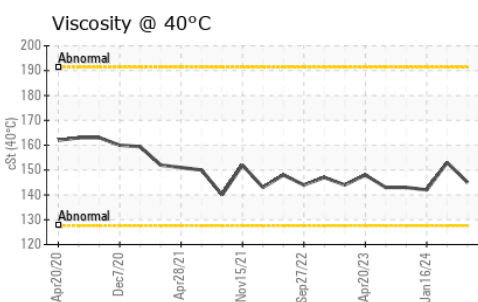
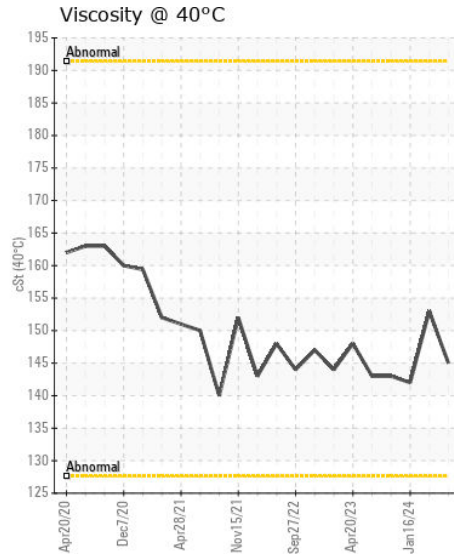
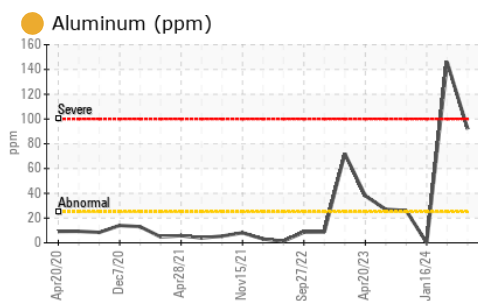
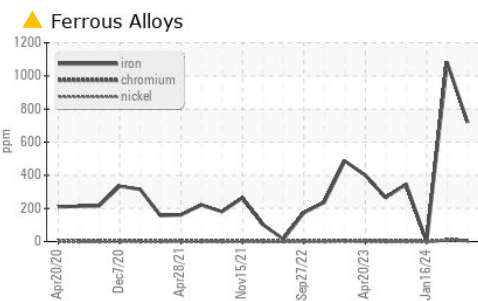
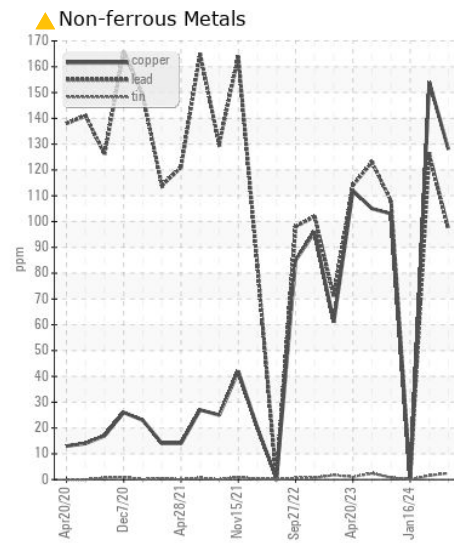
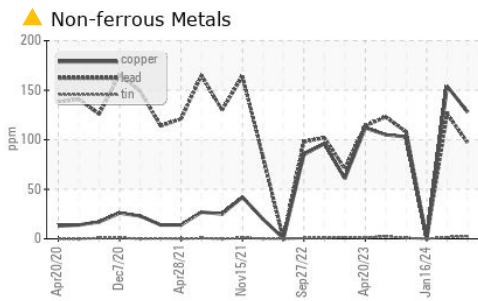
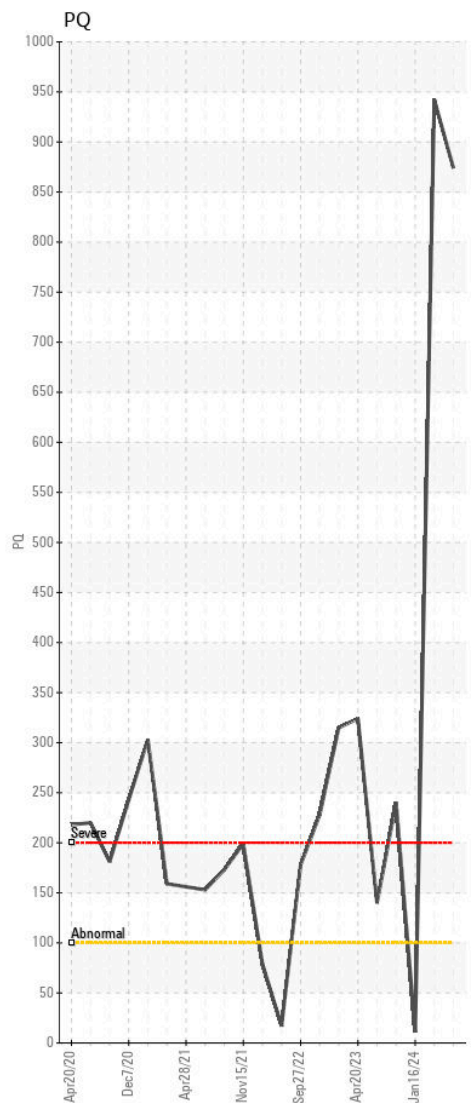
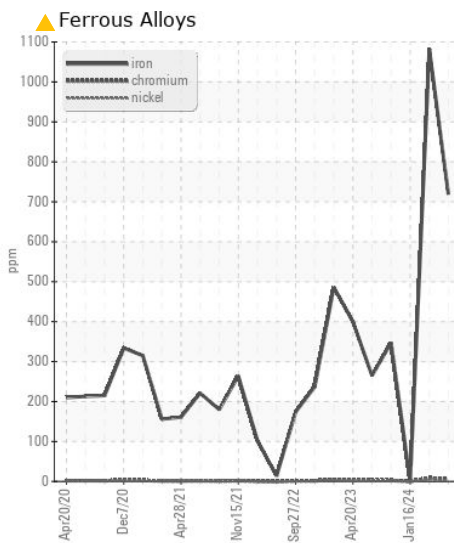
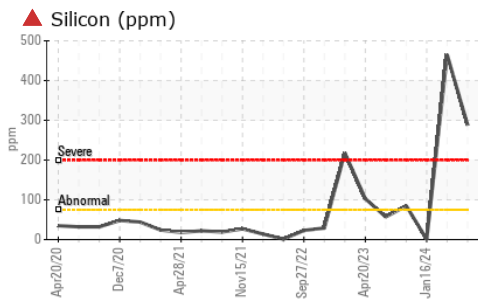
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>▲ 288</b>	▲ 465	<1
Potassium	ppm	ASTM D5185m	>20	<b>24</b>	41	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>30</b>	39	<1
Boron	ppm	ASTM D5185m		<b>5</b>	12	0
Barium	ppm	ASTM D5185m		<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>7</b>	10	0
Magnesium	ppm	ASTM D5185m		<b>21</b>	39	0
Calcium	ppm	ASTM D5185m		<b>110</b>	135	2
Phosphorus	ppm	ASTM D5185m		<b>1847</b>	2144	329
Zinc	ppm	ASTM D5185m		<b>83</b>	164	0
Sulfur	ppm	ASTM D5185m		<b>25477</b>	25259	18976
Visc @ 40°C	cSt	ASTM D445		<b>145</b>	153	142



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0212992 **Received** : 19 Apr 2024  
**Lab Number** : 06154755 **Tested** : 22 Apr 2024  
**Unique Number** : 10990178 **Diagnosed** : 23 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**RDU - MARTIN MARIETTA**  
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 RALEIGH, NC  
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 Contact: Chad Franks  
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Certificate L2367  
 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)