WEAR CONTAMINATION FLUID CONDITION

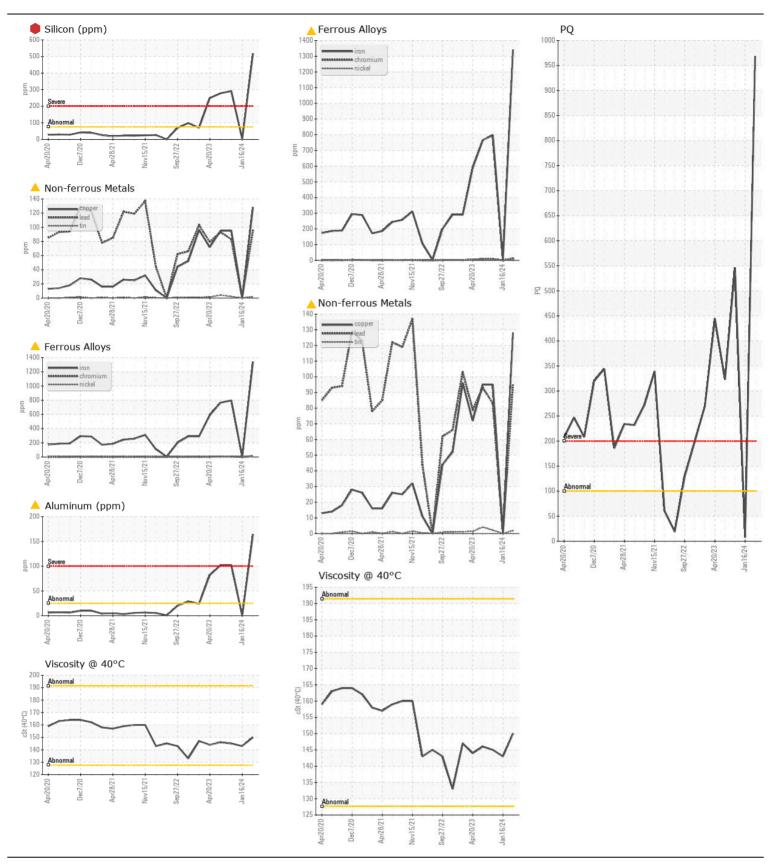
ABNORMAL SEVERE NORMAL

Machine Id

EPIROC D60 G18SED0760

Right Final Drive

JOHN DEERE GL-5 80W90 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		JR0202772	JR0197307	JR0186401
	Sample Date		Client Info		20 Feb 2024	16 Jan 2024	08 Sep 2023
	Machine Age	hrs	Client Info		9966	9736	9172
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		N/A	N/A	Not Changd
	Sample Status				SEVERE	NORMAL	SEVERE
WEAR	PQ		ASTM D8184		968	8	546
Bearing and/or bushing wear is indicated. Gear wear is indicated.	Iron	ppm	ASTM D5185m	>500	<u> </u>	0	△ 797
	Chromium	ppm	ASTM D5185m	>10	1 2	0	7
	Nickel	ppm	ASTM D5185m	>10	6	0	3
	Titanium	ppm	ASTM D5185m		13	0	8
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		164	0	▲ 102
	Lead	ppm	ASTM D5185m		<u> </u>	0	8 3
	Copper	ppm	ASTM D5185m		<u> </u>	<1	<u>\$\times 95\$</u>
	Tin	ppm	ASTM D5185m	>10	2	0	2
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>75	517	1	2 91
	Potassium	ppm	ASTM D5185m	>20	36	<1	18
	Water		WC Method	>0.2	NEG	NEG	NEG
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		42	<1	25
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		13	0	11
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	0	<1
	Manganese	ppm	ASTM D5185m		12	0	8
	Magnesium	ppm	ASTM D5185m		39	0	26
	Calcium	ppm	ASTM D5185m		120	3	89
	Phosphorus	ppm	ASTM D5185m		2237	318	2132
	Zinc	ppm	ASTM D5185m		123	0	75
	Sulfur	ppm	ASTM D5185m		26859	18932	25056
	Visc @ 40°C	cSt	ASTM D445		150	143	145





Laboratory Sample No. Lab Number

Unique Number : 10890099

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0202772 : 06097246

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 23 Feb 2024 : 23 Feb 2024 - Sean Felton

: 22 Feb 2024

RDU - MARTIN MARIETTA PO BOX 30013 RALEIGH, NC US 27622 Contact: Chad Franks

chad.franks@martinmarietta.com T:

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)

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