

Machine Id JOHN DEERE CP690 1N0C690PHK4075724 Component Right Reduction Gear Fluid

{not provided} (--- 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

Gear wear is indicated.

CONTAMINATION

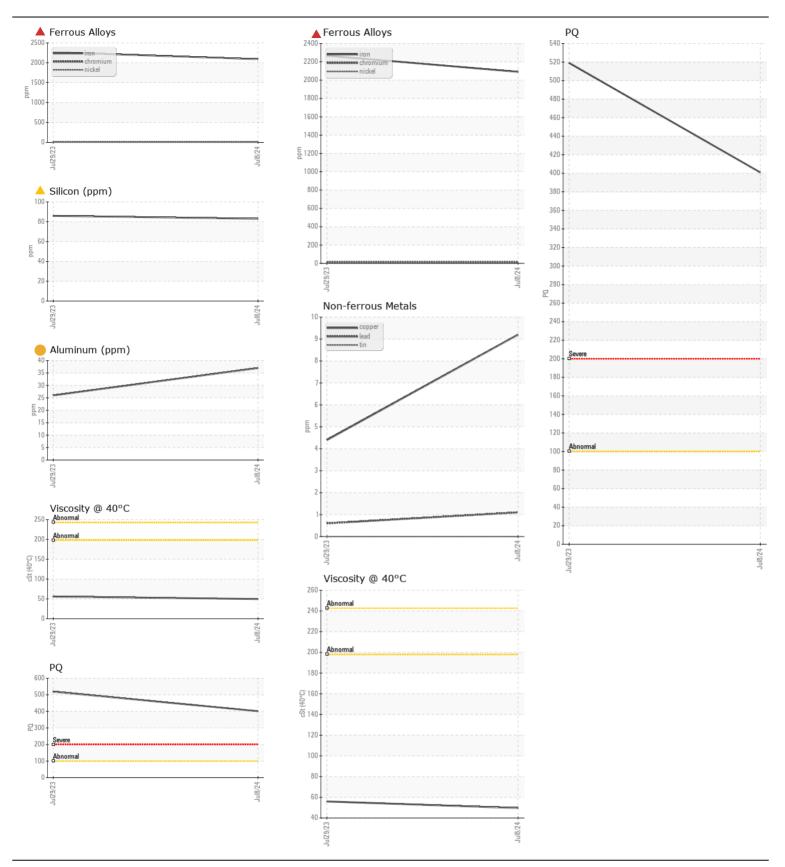
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0216804	JR0172492	
Sample Date		Client Info		08 Jul 2024	29 Jul 2023	
Machine Age	hrs	Client Info		1264	1058	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	SEVERE	
PQ		ASTM D8184		401	▲ 519	
Iron	0000	ASTM Do104 ASTM D5185m	>200	401	▲ 2267	
-	ppm					
Chromium Nickel	ppm	ASTM D5185m	>10	▲ 12 ▲ 10	▲ 13 ▲ 11	
	ppm	ASTM D5185m	>10	▲ 10 1	▲ 11 1	
Titanium	ppm	ASTM D5185m		1	1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		3 7	26	
Lead	ppm	ASTM D5185m		1	<1	
Copper	ppm	ASTM D5185m		9	4	
Tin	ppm	ASTM D5185m		0 <1	0	
Vanadium	ppm	ASTM D5185m				
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m		A 83	8 6	
Potassium	ppm	ASTM D5185m	>20	13	13	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	
Sodium		ACTM DE10Em		0	e	
	ppm	ASTM D5185m ASTM D5185m		8	6	
Boron Barium	ppm	ASTM D5185m		0	3 23	
	ppm			0		
Molybdenum	ppm	ASTM D5185m ASTM D5185m		6 19	10 19	
Manganese	ppm	ASTM D5185m		18 56	52	
Magnesium Calcium	ppm			50 1161	2846	
Phosphorus	ppm	ASTM D5185m		1002	2846 979	
Zinc	ppm	ASTM D5185m ASTM D5185m		985	1128	
Sulfur	ppm	ASTM D5185m		985 4013	3848	
Visc @ 40°C	ppm cSt					
VISC (@ 40°C	cSt	ASTM D445		49.6	56.0	

Contact/Location: BILL ACKER - JAMWAK



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - WAKEFIELD** Sample No. : JR0216804 Received 10489 GENERAL MAHONE HWY : 08 Jul 2024 Ē Lab Number : 06230465 Tested WAKEFIELD, VA : 10 Jul 2024 : 10 Jul 2024 - Don Baldridge US 23888 Unique Number : 11113958 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: BILL ACKER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. backer@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (757)899-3232 F: (757)899-6464 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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