

Machine Id JOHN DEERE CP690 1N0C690PEL4080747 Component Diesel Engine Fluid {not provided} (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection 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. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0201912		
Sample Date		Client Info		15 Jan 2024		
Machine Age	hrs	Client Info		921		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
				40		
Iron	ppm	ASTM D5185m	>51	10		
Chromium	ppm	ASTM D5185m	>11	U .1		
NICKEI	ppm	ASTM D5185m	>5	<1		
Cilver	ppm	AGTM DE105m	. 0	0		
Aluminum	ppm	ASTM DE185m	>0	5		
Load	ppm	ASTM D5105III	>01	5		
Copper	ppm	ASTM D5185m	>20	2 Q		
Tin	ppm	ASTM D5185m	>20	2		
Vanadium	nnm	ASTM D5185m	~7			
White Metal	scalar	*Vieual	NONE	NONE		
Vellow Metal	scalar	*Visual	NONE	NONE		
	304141	visual				
Silicon	ppm	ASTM D5185m	>22	6		
Potassium	ppm	ASTM D5185m	>20	1		
Fuel	%	ASTM D3524	>2.1	0 3.9		
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	9.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.21	NEG		
Sodium	nnm	ASTM D5185m	>31	5		
Boron	ppm	ASTM D5185m	201	187		
Barium	ppm	ASTM D5185m		0		
Molvbdenum	ppm	ASTM D5185m		245		
Manganese	mag	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		831		
Calcium	ppm	ASTM D5185m		1309		
Phosphorus	ppm	ASTM D5185m		913		
Zinc	ppm	ASTM D5185m		1055		
Sulfur	ppm	ASTM D5185m		2885		
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6		
Base Number (BN)	mg KOH/g	ASTM D2896		8.3		
Visc @ 100°C	cSt	ASTM D445		12.3]	



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 JRE - WAKEFIELD Sample No. : JR0201912 Recieved : 16 Jan 2024 10489 GENERAL MAHONE HWY Lab Number : 06060868 Diagnosed : 18 Jan 2024 WAKEFIELD, VA : 10832250 Diagnostician : Wes Davis US 23888 Unique Number Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) 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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Contact/Location: BILL ACKER - JAMWAK

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