

JOHN DEERE 825I GC-7 (S/N MOREOFA139687) Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (--- GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.

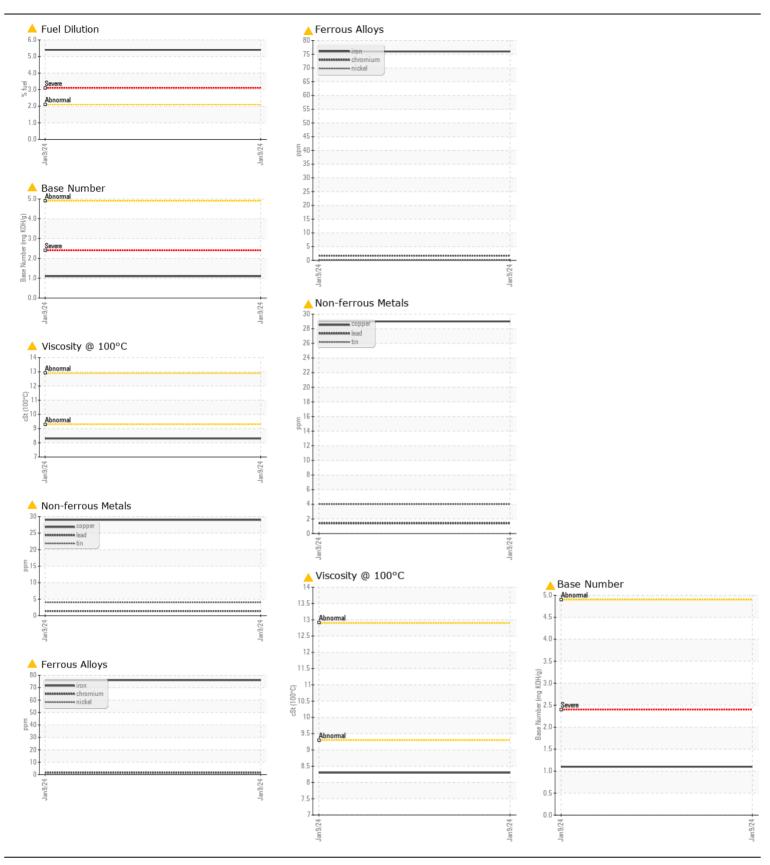
100	МЛЕ		N
COI			

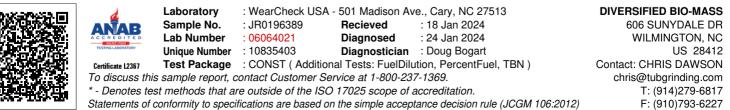
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a moderate amount of fuel present in the oil.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

- GAL)				~~~~~		
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196389		
Sample Date		Client Info		09 Jan 2024		
Machine Age	hrs	Client Info		2116		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
·····						
Iron	ppm	ASTM D5185m	>51	4 76		
Chromium	ppm	ASTM D5185m	>11	2		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	1 4		
Lead	ppm	ASTM D5185m	>26	1		
Copper	ppm	ASTM D5185m	>26	🔺 29		
Tin	ppm	ASTM D5185m	>4	4		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>22	A 38		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>2.1	5 .4		
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	16.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.9		
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		
Codium		ASTM D5185m	. 01	17		
Sodium	ppm		>31	17		
Boron	ppm	ASTM D5185m		37		
Barium	ppm	ASTM D5185m		4		
Molybdenum	ppm	ASTM D5185m		65		
Manganese	ppm	ASTM D5185m		27		
Magnesium	ppm	ASTM D5185m		72		
Calcium	ppm	ASTM D5185m		1819		
Phosphorus	ppm	ASTM D5185m		686		
Zinc	ppm	ASTM D5185m		879		
Sulfur	ppm	ASTM D5185m	05	2898		
Oxidation	Abs/.1mm	*ASTM D7414	>25	32.4		
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 1.1		
Visc @ 100°C	cSt	ASTM D445		8.3		





Contact/Location: CHRIS DAWSON - DIVWIL

Page 2 of 2