

Machine Id JOHN DEERE 317G 1T0317GJPLJ387517 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

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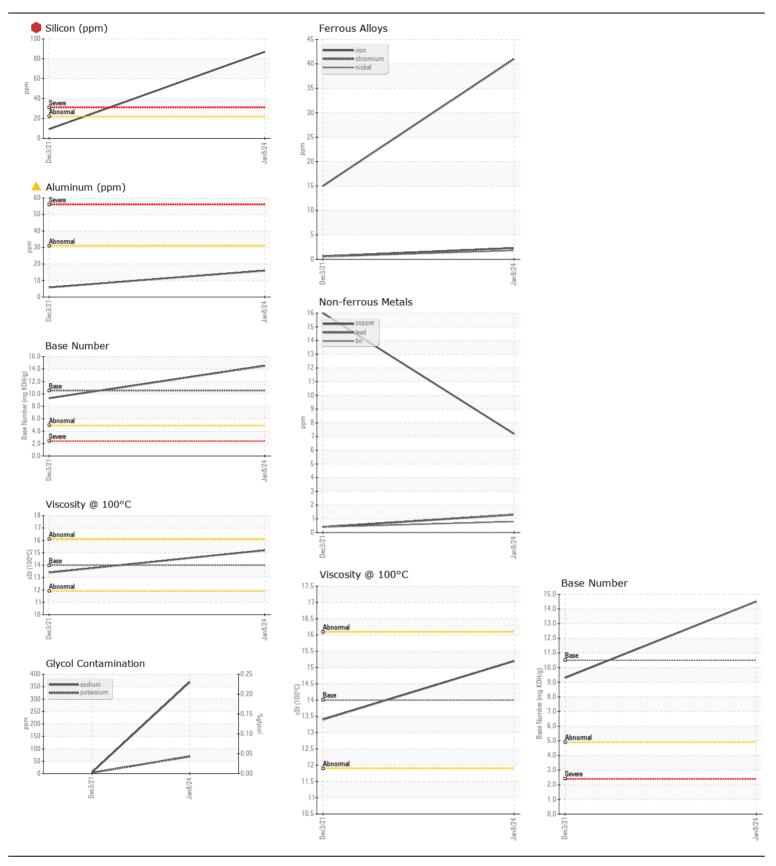
FLUID CONDITION

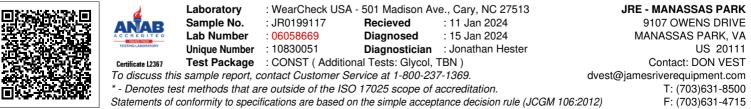
oil.

Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Test	UOM	Method	Limit/Abn	C	urrent	History1	History2
Sample Number		Client Info		JF	R0199117	JR0110816	
Sample Date		Client Info		08	Jan 2024	03 Dec 2021	
Machine Age	hrs	Client Info		18	344	513	
Oil Age	hrs	Client Info		18	344	0	
Filter Age	hrs	Client Info		0		0	
Oil Changed		Client Info		C	hanged	Changed	
Filter Changed		Client Info		N	Ά	Changed	
Sample Status				SI	EVERE	NORMAL	
Iron	ppm	ASTM D5185m	>51		41	15	
Chromium	ppm	ASTM D5185m	>11		2	<1	
Nickel	ppm	ASTM D5185m	>5		2	<1	
Titanium	ppm	ASTM D5185m	0		<1	<1	
Silver	ppm	ASTM D5185m	>3		0	0	
Aluminum	ppm	ASTM D5185m	>31		16	6	
Lead	ppm	ASTM D5185m	>26		1	<1	
Copper	ppm	ASTM D5185m	>26		7	16	
Tin	ppm	ASTM D5185m	>4		<1	<1	
Vanadium	ppm	ASTM D5185m	NONE		0	<1	
White Metal	scalar	*Visual	NONE		NONE	NONE	
 Yellow Metal	scalar	*Visual	NONE		NONE	NONE	
Silicon	ppm	ASTM D5185m	>22		87	9	
Potassium	ppm	ASTM D5185m	>20		69	4	
Fuel	le le	WC Method	>2.1		<1.0	<1.0	
Water		WC Method	>0.21		NEG	NEG	
Glycol	%	*ASTM D2982			NEG	NEG	
Soot %	%	*ASTM D7844	>3		1	0.4	
Nitration	Abs/cm	*ASTM D7624	>20		10.8	8.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30		19.4	20.4	
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	>0.21		NEG	NEG	
 						_	
Sodium	ppm	ASTM D5185m	>31		368	5	
Boron	ppm	ASTM D5185m			24	94	
Barium	ppm	ASTM D5185m			<1	0	
Molybdenum	ppm	ASTM D5185m			32	32	
Manganese	ppm	ASTM D5185m			<1	<1	
Magnesium	ppm	ASTM D5185m			62 1641	712	
Calcium	ppm	ASTM D5185m			1641	1340 1002	
Phosphorus	ppm	ASTM D5185m			743		
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m			981 2515	1057 3171	
	ppm		> 2F		3515		
Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>25		12.0	14.2	
Base Number (BN) Visc @ 100°C	mg KOH/g	ASTM D2896	10.5		14.5	9.3	
visc @ 100°C	cSt	ASTM D445	14		15.2	13.4	

The BN result indicates that there is suitable alkalinity remaining in the





Contact/Location: DON VEST - JAMMAN

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