WEAR
CONTAMINATION
FLUID CONDITION

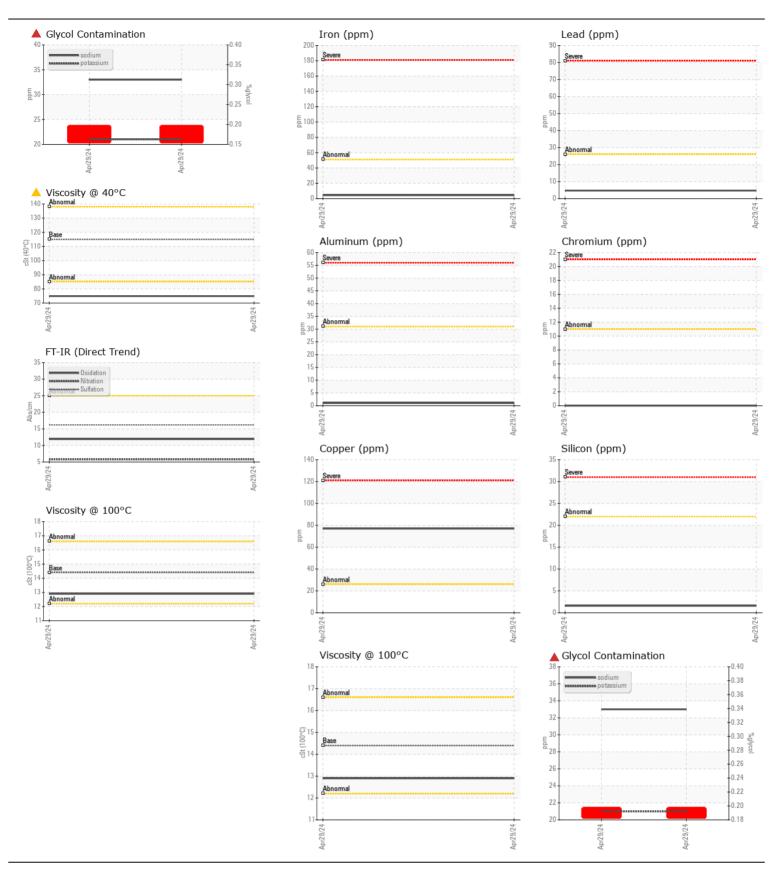
NORMAL SEVERE ABNORMAL

Machine Id

## **JOHN DEERE NO UNIT PC0084986**

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.	Sample Number		Client Info		PC0084986		
	Sample Date		Client Info		29 Apr 2024		
	Machine Age	kms	Client Info		21625		
	Oil Age	kms	Client Info		500		
	Filter Age	kms	Client Info		500		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185(m)	>51	4		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>11	0		
	Nickel	ppm	ASTM D5185(m)	>5	0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>31	1		
	Lead	ppm	ASTM D5185(m)	>26	5		
	Copper	ppm	ASTM D5185(m)	>26	77		
	Tin	ppm	ASTM D5185(m)	>4	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>22	2		
Test for glycol is positive. There is a high concentration of glycol present in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<u> </u>		
	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol	%	ASTM D7922*		<b>4</b> 0.198		
	Soot %	%	ASTM D7844*	>3	0		
	Nitration	Abs/cm	ASTM D7624*	>20	5.8		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	16.2		
	Silt	scalar	Visual*	NONE	VLITE		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>158	<b>3</b> 3		
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	250	10		
	Barium	ppm	ASTM D5185(m)	10	0		
	Molybdenum	ppm	ASTM D5185(m)	100	<1		
	Manganese	ppm	ASTM D5185(m)		<1		
	Magnesium	ppm	ASTM D5185(m)	450	27		
	Calcium	ppm	ASTM D5185(m)	3000	1926		
	Phosphorus	ppm	ASTM D5185(m)	1150	884		
	Zinc	ppm	ASTM D5185(m)	1350	999		
	Sulfur	ppm	ASTM D5185(m)	4250	2906		
	Oxidation	Abs/.1mm	ASTM D7414*		11.9		
	Visc @ 40°C	cSt	ASTM D7279(m)	115	<b>4.9</b>		
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.9		
	Viscosity Index (VI)	Scale	ASTM D2270*	126	174		





ISO 17025:2017
Accredited
Laboratory

Laboratory: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9Sample No.: PC0084986Received: 29 May 2024

Test Package : MOB 1 ( Additional Tests: Glycol, KV40, VI, Visual )

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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