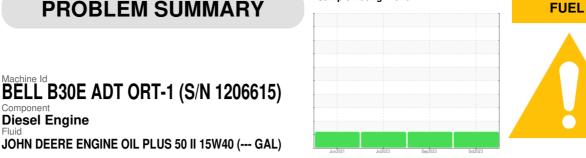


PROBLEM SUMMARY

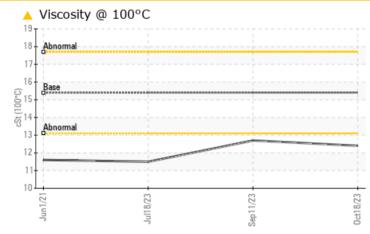


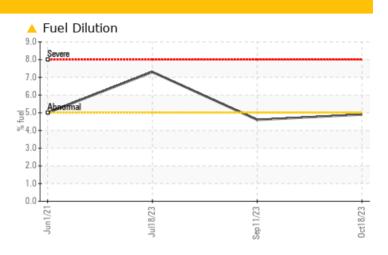
Sample Rating Trend

COMPONENT CONDITION SUMMARY

Component **Diesel Engine**

Fluid





RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL				
Fuel	%	ASTM D3524	>5	4 .9	4 .6	▲ 7.3				
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	12.7	1 1.5				

Customer Id: DIVWIL Sample No.: JR0173422 Lab Number: 05994170 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

11 Sep 2023 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. 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 condition of the oil is suitable for further service.



view report

18 Jul 2023 Diag: Jonathan Hester



We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

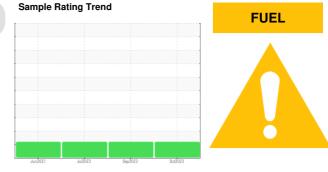


We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.





OIL ANALYSIS REPORT





BELL B30E ADT ORT-1 (S/N 1206615) Component **Diesel Engine** Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		JR0173422	JR0173425	JR0173419
esample at the next service interval to monitor.	Sample Date		Client Info		18 Oct 2023	11 Sep 2023	18 Jul 2023
ear	Machine Age	hrs	Client Info		9374	9302	9185
component wear rates are normal.	Oil Age	hrs	Client Info		194	191	486
Contamination	Oil Changed		Client Info		Not Changd	Not Changd	Changed
nt fuel dilution occurring.	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
Iuid Condition	CONTAMINATIO	N	method	limit/base	current	history1	history
BN result indicates that there is suitable Alinity remaining in the oil. Fuel is present in the	Water		WC Method	>0.2	NEG	NEG	NEG
nd is lowering the viscosity. The condition of the	Glycol		WC Method		NEG	NEG	NEG
s suitable for further service.	WEAR METALS		method	limit/base	current	history1	history
	Iron	ppm	ASTM D5185m	>100	5	5	9
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	<1	3
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	1	<1	1
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Antimony	ppm	ASTM D5185m				
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history
	Boron	ppm	ASTM D5185m		256	304	350
	Barium	ppm	ASTM D5185m		0	0	1
	Molybdenum	ppm	ASTM D5185m		207	229	103
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		735	790	393
	Calcium	ppm	ASTM D5185m		1286	1488	1365
	Phosphorus	ppm	ASTM D5185m		884	923	906
	Zinc	ppm	ASTM D5185m		1092	1112	1112
	Sulfur	ppm	ASTM D5185m		2988	3678	2919
	CONTAMINANTS	5	method	limit/base	current	history1	history
	Silicon	ppm	ASTM D5185m	>25	7	6	5
	Sodium	ppm	ASTM D5185m		2	<1	0
	Potassium	ppm	ASTM D5185m	>20	2	<1	2
	Fuel	%	ASTM D3524	>5	4 .9	4.6	▲ 7.3
	INFRA-RED		method	limit/base	current	history1	history
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.6	6.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.5	20.3
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	14.0	14.0
	0/110/01/1						

Base Number (BN) mg KOH/g ASTM D2896 13.6

Contact/Location: CHRIS DAWSON - DIVWIL

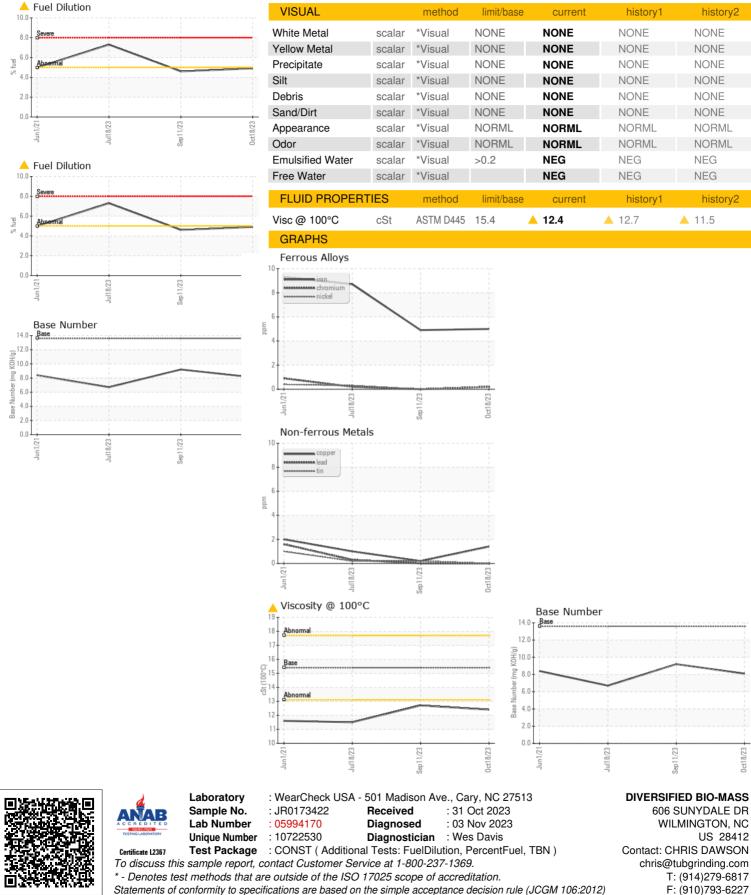
9.2

8.1

6.7



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: CHRIS DAWSON - DIVWIL

Oct18/23