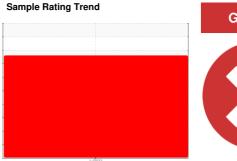


OIL ANALYSIS REPORT



GLYCOL

Machine Id 2

Component

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. 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.

All component wear rates are normal.

Contamination

Test for glycol is positive. There is a high amount of fuel present in the oil. There is a light concentration of glycol present in the oil. Tests confirm the presence of fuel in the oil.

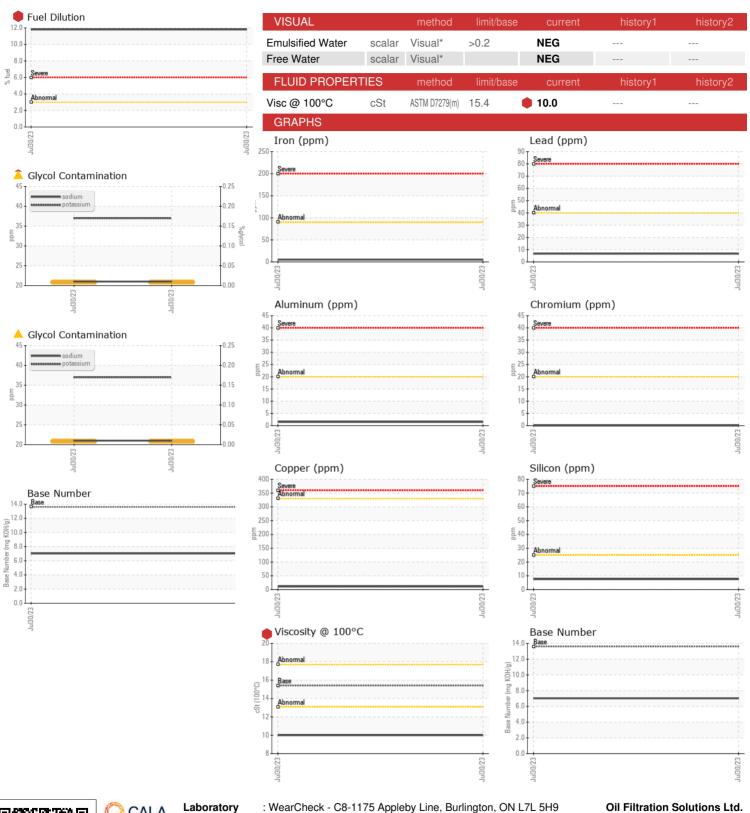
Fluid Condition

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.

40 (GAL)				Jul2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		OF0000910		
Sample Date		Client Info		30 Jul 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	5		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	2		
Lead	ppm	ASTM D5185(m)	>40	7		
Copper	ppm	ASTM D5185(m)	>330	11		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		155		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		204		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		671		
Calcium	ppm	ASTM D5185(m)		1045		
Phosphorus	ppm	ASTM D5185(m)		755		
Zinc	ppm	ASTM D5185(m)		787		
Sulfur	ppm	ASTM D5185(m)		2076		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8		
Sodium	ppm	ASTM D5185(m)		<u>^</u> 21		
Potassium	ppm	ASTM D5185(m)	>20	4 37		
Fuel	%	ASTM D7593*	>3.0	11.8		
Glycol	%	ASTM D7922*		▲ 0.014		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0		
Nitration	Abs/cm	ASTM D7624*	>20	7.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6		
Base Number (BN)	mg KOH/g	ASTM D2896*	13.6	7.02		
(211)						



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: OF0000910 : 02580624 : 5633684

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

Diagnostician : Kevin Marson Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, PercentFuel)

: 06 Sep 2023 : 07 Sep 2023

PO BOX 16125 CONCEPTION BAY SOUTH, NL CA A1X 2E2

Contact: BILL BUTLER BBUTLER@OILFILTRATIONSOLUTIONS.COM T: (709)834-8433

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.

F: (709)834-8435

Contact/Location: BILL BUTLER - FILCON