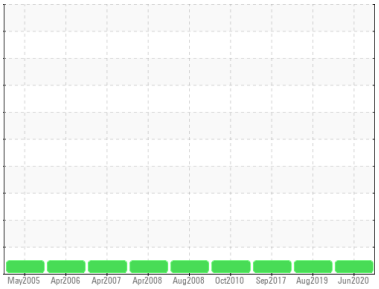
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
CARDIESEL (S/N T06359T21361T)
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (34)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0327967**	WC0299351	WC963507
Sample Date		Client Info		**18 Jun 2020**	22 Aug 2019	13 Sep 2017
Machine Age	hrs	Client Info		**0**	0	32
Oil Age	hrs	Client Info		**0**	0	9
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	**<1.0**	<1.0	<1.0
Water		WC Method	>0.21	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	**3**	3	2
Chromium	ppm	ASTM D5185(m)	>11	**<1**	<1	0
Nickel	ppm	ASTM D5185(m)	>5	**0**	0	0
Titanium	ppm	ASTM D5185(m)		**<1**	<1	0
Silver	ppm	ASTM D5185(m)		**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>31	**2**	3	2
Lead	ppm	ASTM D5185(m)	>26	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>26	**1**	<1	<1
Tin	ppm	ASTM D5185(m)	>4	**0**	0	0
Antimony	ppm	ASTM D5185(m)		**<1**	<1	1
Vanadium	ppm	ASTM D5185(m)		**<1**	<1	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**176**	180	19
Barium	ppm	ASTM D5185(m)		**<1**	<1	<1
Molybdenum	ppm	ASTM D5185(m)		**185**	184	36
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**808**	806	408
Calcium	ppm	ASTM D5185(m)		**1331**	1326	1749
Phosphorus	ppm	ASTM D5185(m)		**925**	919	984
Zinc	ppm	ASTM D5185(m)		**1062**	1055	1146
Sulfur	ppm	ASTM D5185(m)		**2698**	2707	3083
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	**5**	5	5
Sodium	ppm	ASTM D5185(m)	>31	**1**	2	2
Potassium	ppm	ASTM D5185(m)	>20	**1**	2	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**6.4**	6.0	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	**23.8**	21.4	22.3

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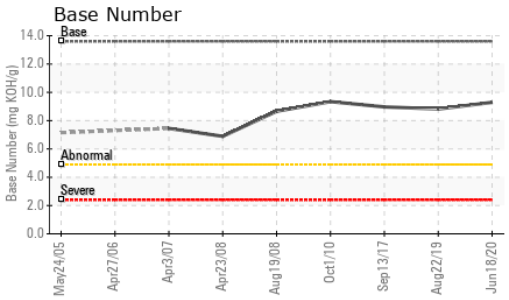
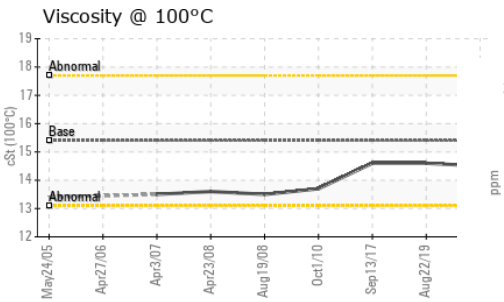


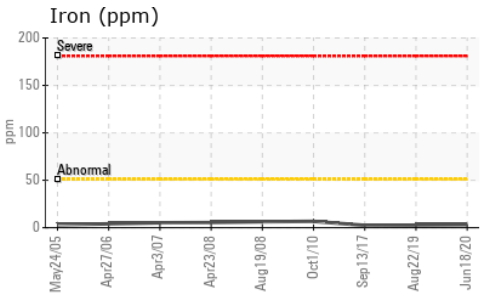


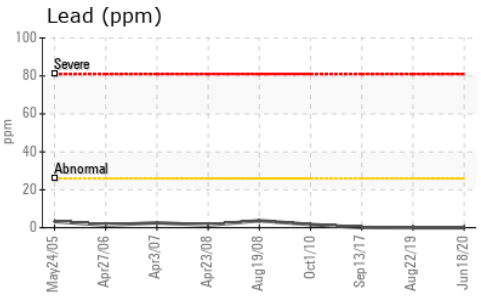
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.1**	14.5	13.5
Base Number (BN)	mg KOH/g	ASTM D2896*	13.6	**9.29**	8.82	8.97

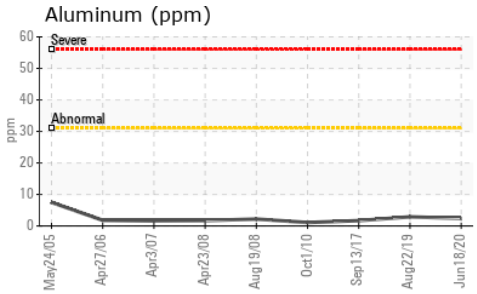
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

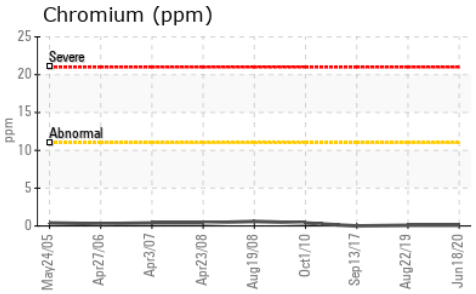
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	**14.5**	14.6	14.6

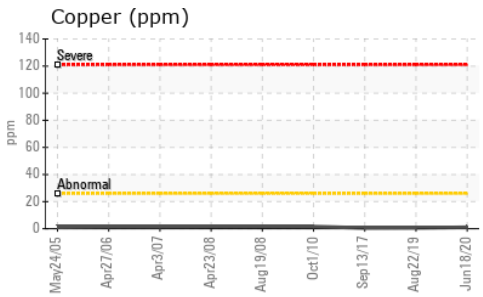
GRAPHS

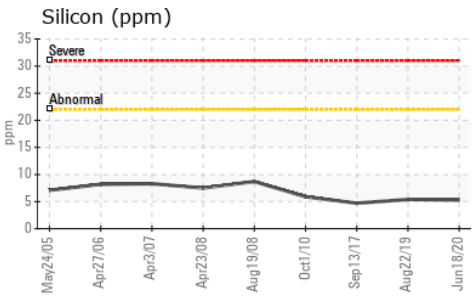


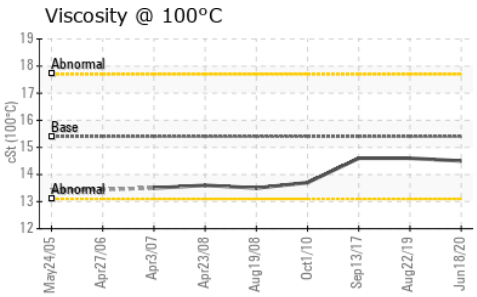


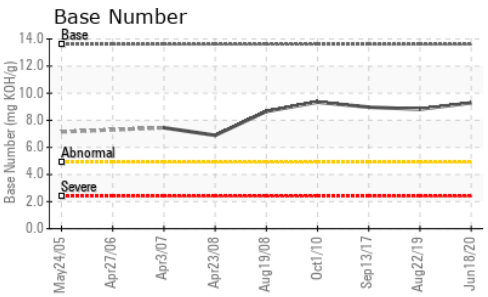












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0327967
Lab Number : 02361766
Unique Number : 5069210
Test Package : MOB 2

Recieved : 26 Jun 2020
Diagnosed : 26 Jun 2020
Diagnostician : Wes Davis

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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