

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

JOHN DEERE 1DW648LXAFF670477

Diesel Engine

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

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 acceptable for the time in service.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		JR0210286	JR0184543	JR0041153	
Sample Date		Client Info		07 May 2024	06 Nov 2023	03 Apr 2020	
Machine Age	hrs	Client Info		7810	60	5004	
Oil Age	hrs	Client Info		0	60	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	ATTENTION	NORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2	
Fuel		WC Method	>2.1	<1.0	0.2	<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 D5185m	>51	17	10	28	
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	2	<1	<1	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>31	8	4	8	
Lead	ppm	ASTM D5185m	>26	<1	<1	0	
Copper	ppm	ASTM D5185m	>26	5	8	12	
Tin	ppm	ASTM D5185m	>4	1	0	<1	
Antimony	ppm	ASTM D5185m				2	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		399	306	130	
Barium	ppm	ASTM D5185m		3	2	0	
Molybdenum	ppm	ASTM D5185m		371	256	247	
Manganese	ppm	ASTM D5185m		1	2	<1	
Magnesium	ppm	ASTM D5185m		1102	785	738	
Calcium	ppm	ASTM D5185m		1909	1344	1302	
Phosphorus	ppm	ASTM D5185m		1229	814	789	
Zinc	ppm	ASTM D5185m		1478	1041	894	
Sulfur	ppm	ASTM D5185m		4352	3296	1705	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	10	9	5	
Sodium	ppm	ASTM D5185m	>31	5	<1	4	
Potassium	ppm	ASTM D5185m	>20	4	3	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.1	1.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.0	9.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.1	21.2	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	14.3	15.1	
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.1	9.8	5.3	
1.10.16) Rev: 1				Contact/Location: BUSH GIBSON - BUSBLU			

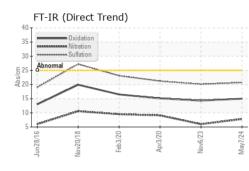
Contact/Location: RUSH GIBSON - RUSBLU

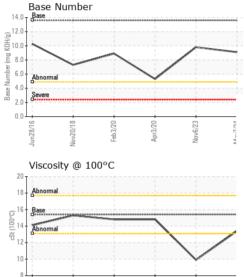


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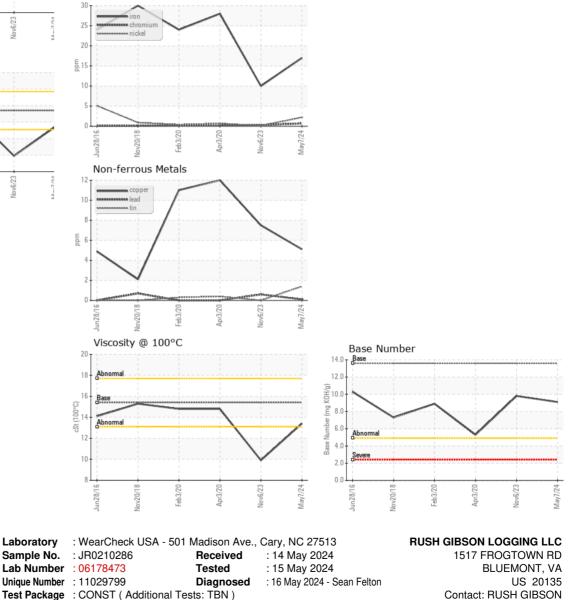
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
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 D445	15.4	13.4	9.9	14.8

GRAPHS Ferrous Alloys



Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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