

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Ic JOHN DEERE 544L 1DW544L Component

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Elui

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

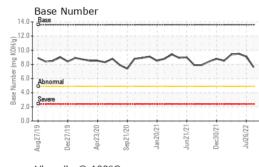
Fluid Condition

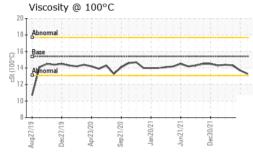
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LZVKF69	9766										
40 (GAL) Activity Decknity Decknit											
	VIATION		limit/base		history1	history2					
Sample Number		Client Info Client Info		JR0160584 28 Mar 2023	JR0135749 26 Jul 2022	JR0131580 26 Apr 2022					
Sample Date Machine Age	hrs	Client Info		20 Mai 2023	17301	16718					
Oil Age	hrs	Client Info		520	583	544					
Oil Changed		Client Info		Changed	Changed	Changed					
Sample Status				NORMAL	NORMAL	NORMAL					
CONTAMINATIO	N	method	limit/base	current	history1	history2					
Fuel		WC Method	>5	<1.0	<1.0	<1.0					
Glycol		WC Method		NEG	NEG	NEG					
WEAR METALS		method	limit/base	current	history1	history2					
Iron	ppm	ASTM D5185m	>51	29	12	11					
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1					
Nickel	ppm	ASTM D5185m	>5	2	<1	<1					
Titanium	ppm	ASTM D5185m		0	0	0					
Silver	ppm	ASTM D5185m	>3	0	<1	<1					
Aluminum	ppm	ASTM D5185m	>31	6 <1	3	4					
Lead Copper	ppm ppm	ASTM D5185m ASTM D5185m	>26 >26	4	<1	<1					
Tin	ppm	ASTM D5185m	>4	- <1	<1	<1					
Vanadium	ppm	ASTM D5185m	21	<1	0	<1					
Cadmium	ppm	ASTM D5185m		0	0	0					
ADDITIVES		method	limit/base	current	history1	history2					
Boron	ppm	ASTM D5185m		168	145	163					
Barium	ppm	ASTM D5185m		0	0	0					
Volybdenum	ppm	ASTM D5185m		249	250	260					
Vanganese	ppm	ASTM D5185m		<1	<1	<1					
Magnesium	ppm	ASTM D5185m		759	763	876					
Calcium	ppm	ASTM D5185m		1390	1418	1560					
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		815 1019	782 1005	943 1150					
Sulfur	ppm ppm	ASTM D5185m		3282	3263	2764					
CONTAMINANTS	5	method	limit/base	current	history1	history2					
Silicon	ppm	ASTM D5185m	>22	10	9	8					
Sodium	ppm	ASTM D5185m	>31	4	2	3					
Potassium	ppm	ASTM D5185m	>20	4	0	2					
INFRA-RED		method	limit/base	current	history1	history2					
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.6					
Nitration	Abs/cm	*ASTM D7624	>20	9.8	11.0	10.2					
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	25.8	25.8					
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2					
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	20.4	20.4					
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	9.1	9.5					

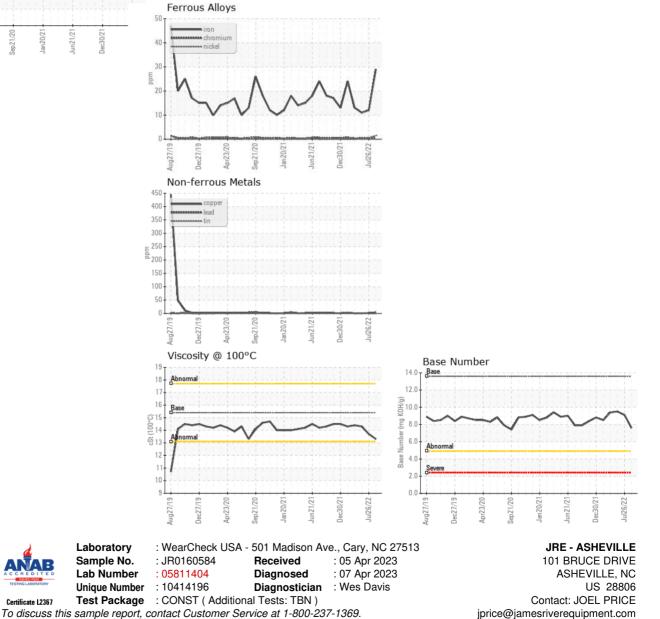


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.7	14.3
GRAPHS						





Certificate L2367

* - 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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