

OIL ANALYSIS REPORT

Sample Rating Trend





[W46889] Machine Id JOHN DEERE 544K 1DW544KZPHF681773

Component

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

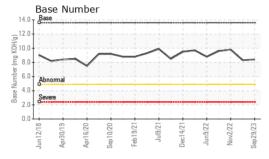
Fluid Condition

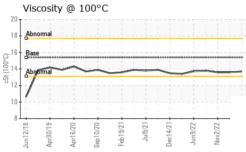
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

PLUS 30 II 134440 (GAL)	un2018 Apr201	9 Apr2020 Sep2020 Feb2	021 Jul2021 Dec2021 Jun2022 N	ov2022 Sep202	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179468	JR0166139	JR0147736
Sample Date		Client Info		29 Sep 2023	14 Apr 2023	02 Nov 2022
Machine Age	hrs	Client Info		9857	9516	9022
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<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	15	15	17
Chromium	ppm	ASTM D5185m	>11	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		6	0	2
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		252	209	207
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		242	256	226
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		872	769	755
Calcium	ppm	ASTM D5185m		1428	1447	1444
Phosphorus	ppm	ASTM D5185m		960	892	829
Zinc	ppm	ASTM D5185m		1165	1092	1056
Sulfur	ppm	ASTM D5185m		3346	3160	3241
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	6	6	6
Sodium	ppm	ASTM D5185m	>31	2	0	2
Potassium	ppm	ASTM D5185m	>20	<1	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.7	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	21.7	23
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	16.6	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.4	8.3	9.8
Dase Mullibel (DIN)	illy NOR/y	A3 1 W D2090	13.0	0.4	0.0	3.0



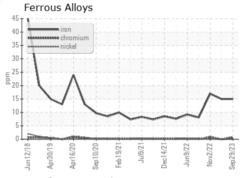
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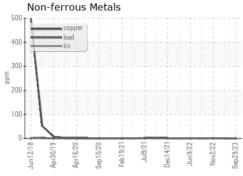


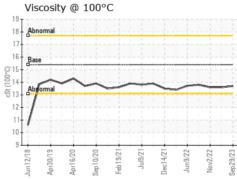


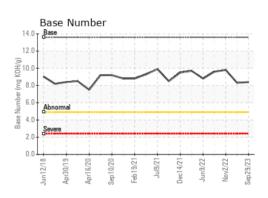
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	13.6	











Laboratory Sample No. Lab Number Unique Number : 10675238

: JR0179468 : 05968687

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 04 Oct 2023 : 05 Oct 2023

Diagnostician : Wes Davis Test Package : CONST (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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ASHLAND, VA

US 23005

11047 LEADBETTER RD

* - 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)