

OIL ANALYSIS REPORT

Sample Rating Trend

Sample nating frent

NORMAL



[W46510] Machine Id JOHN DEERE 700K 1T0700KXTGF295063

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

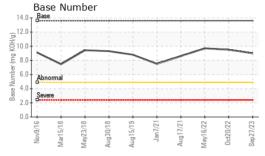
Fluid Condition

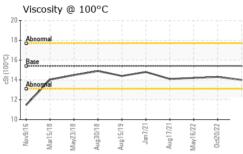
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CAMPLE INFORM	ATION			019 Jan2021 Aug2021 May2022 Oct2		1::
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0165792	JR0148507	JR0123893
Sample Date		Client Info		27 Sep 2023	20 Oct 2022	16 May 2022
Machine Age	hrs	Client Info		4957	4484	3991
Oil Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		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	37	16	20
Chromium	ppm	ASTM D5185m	>11	2	6	<1
Nickel	ppm	ASTM D5185m	>5	6	1	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	9	2	5
Lead	ppm	ASTM D5185m	>26	0	7	<1
Copper	ppm	ASTM D5185m	>26	13	13	3
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		222	181	229
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		259	224	260
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		775	800	868
Calcium	ppm	ASTM D5185m		1400	1443	1504
Phosphorus	ppm	ASTM D5185m		854	831	928
Zinc	ppm	ASTM D5185m		1070	1034	1188
Sulfur	ppm	ASTM D5185m		3127	2886	2917
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	8	9	6
Sodium	ppm	ASTM D5185m	>31	4	2	3
Potassium	ppm	ASTM D5185m	>20	3	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.6	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	25.4	24.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
0.11.11	Abs/.1mm	*ASTM D7414	>25	17.4	19.6	19.4
()xidation						
Oxidation Base Number (BN)	mg KOH/g	ASTM D7414	13.6	9.0	9.5	9.7



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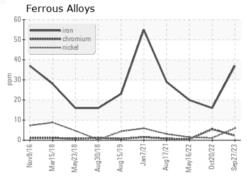


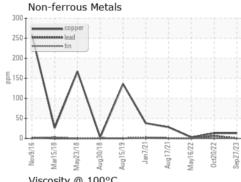


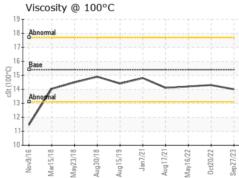
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

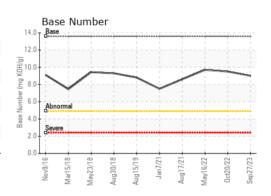
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.3	14.2

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10671677

: JR0165792 : 05965126

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

: 29 Sep 2023 Diagnostician : Don Baldridge

: 02 Oct 2023

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

T: (804)798-6001 F: (804)798-0292

Test Package : CONST (Additional Tests: TBN) 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)

Report Id: JAMASH [WUSCAR] 05965126 (Generated: 10/02/2023 14:08:38) Rev: 1 Contact/Location: DAVID ZIEG - JAMASH

JRE - ASHLAND

ASHLAND, VA

US 23005

11047 LEADBETTER RD