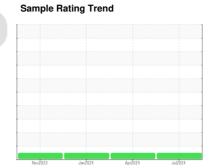


OIL ANALYSIS REPORT









Machine Id JOHN DEERE 770GP - ADAMS 32163 (S/N 1DW770GPPLF707393) Diesel Engine

Fluid AMERIGUARD 10W30 (30 QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

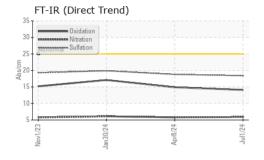
Fluid Condition

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

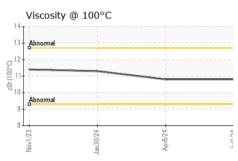
SAMPLE INFORM	IATION	method	limit/base	Clarront	history1	history
	AHON		— IIIII/base	current		history2
Sample Number		Client Info		SBP0007474	SBP0006754	SBP0006403
Sample Date		Client Info		01 Jul 2024	08 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info		3130	2894	2639
Oil Age	hrs	Client Info		236	255	323
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	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 D5185m	>51	9	8	11
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	<1	1	1
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	<1	<1	1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	16	25
Barium	ppm	ASTM D5185m		0	0	16
Molybdenum	ppm	ASTM D5185m		59	60	46
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		929	989	717
Calcium	ppm	ASTM D5185m		1248	1199	1334
Phosphorus	ppm	ASTM D5185m		1069	1108	878
Zinc	ppm	ASTM D5185m		1251	1303	1059
Sulfur	ppm	ASTM D5185m		3626	3790	2810
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	3	3	3
Sodium	ppm	ASTM D5185m	>31	2	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.8	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.8	19.9
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.9	17.1
CAIGGIOIT			/LJ			
Base Number (BN)	mg KOH/g	ASTM D2896		10.0	9.8	8.7



OIL ANALYSIS REPORT



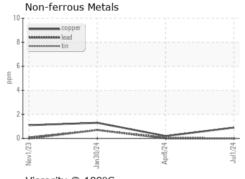
	Base Nu	mber		
	2.0			
_© 10	0.0-			
KOH.	3.0			
Base Number (mg KOH/g)	6.0 - Abnormal			
Num	1.0			
Base	Severe 2.0			
	0.0			
	Nov1/23	Jan30/24	Apr8/24	1.11.70

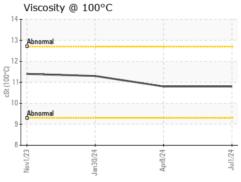


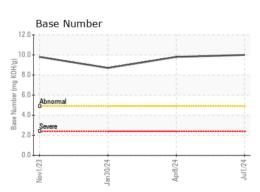
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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	10.8	10.8	11.3	

Ferrous Alloys











Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06234317

: SBP0007474 Unique Number : 11123151

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

Test Package : FLEET

Received : 11 Jul 2024 **Tested** : 12 Jul 2024

Diagnosed : 12 Jul 2024 - Wes Davis

823 SOUTH 8TH ST BEATRICE, NE US 68310 Contact: MARK KUHNKE

mkuhnke@gagecountyne.gov T: (402)223-1395

GAGE COUNTY HIGHWAY DEPARTMENT

* - 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: GAGBEA [WUSCAR] 06234317 (Generated: 07/12/2024 15:57:21) Rev: 1

Submitted By: MARK KUHNKE

F: (402)223-1351