

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

JOHN DEERE 8R310 11613 (S/N 1RW8310DENB201038)

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

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Δ	G١	VИ	-	_	15
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Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

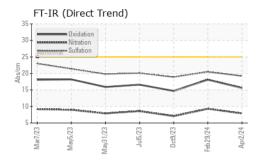
Fluid Condition

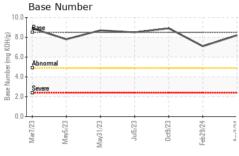
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

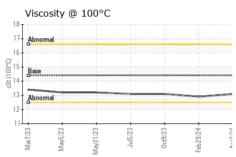
		Mar2023	May2023 May2023	Jul2023 Oct2023 Feb2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0913160	WC0888081	WC0862854
Sample Date		Client Info		02 Apr 2024	29 Feb 2024	09 Oct 2023
Machine Age	hrs	Client Info		4560	4049	3189
Oil Age	hrs	Client Info		511	860	377
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	N	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	34	△ 65	25
Chromium	ppm	ASTM D5185m	>11	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	3	<u>^</u> 21	4
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	3	2
Lead	ppm	ASTM D5185m	>26	3	3	1
Copper	ppm	ASTM D5185m	>26	10	△ 35	5
Tin	ppm	ASTM D5185m	>4	<1	0	<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	250	3	3	4
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	59	59	59
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	998	937	962
Calcium	ppm	ASTM D5185m	3000	1366	1167	1152
Phosphorus	ppm	ASTM D5185m	1150	1141	958	996
Zinc	ppm	ASTM D5185m	1350	1427	1179	1277
Sulfur	ppm	ASTM D5185m	4250	3540	2441	2939
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	4	5	4
Sodium	ppm	ASTM D5185m		1	2	<1
Potassium	ppm	ASTM D5185m	>20	2	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.9	9.3	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.5	18.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	18.1	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.2	7.1	8.9

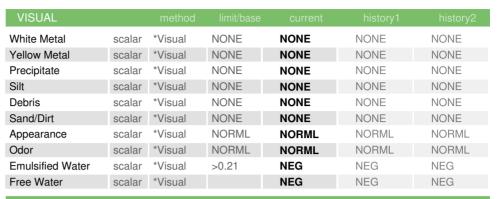


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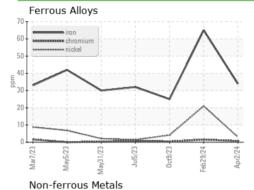


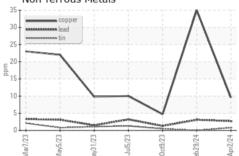


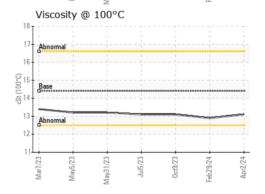


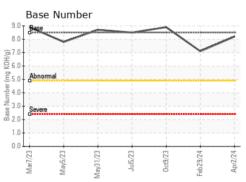
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	12.9	13.1

GRAPHS













Laboratory Sample No. Lab Number : 06147043

: WC0913160 Unique Number : 10977121

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

: 12 Apr 2024 : 15 Apr 2024 Diagnosed

: 15 Apr 2024 - Wes Davis

US 28563 Contact: MIKE WYATT mwyatt@traderconstruction.com

T: (252)633-1399 F: (252)638-4871

TRADER CONSTRUCTION CO.

PO DRAWER 1578

NEW BERN, NC

Test Package : CONST (Additional Tests: TBN) 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)

Report Id: TRANEW [WUSCAR] 06147043 (Generated: 04/15/2024 18:58:38) Rev: 1

Contact/Location: MIKE WYATT - TRANEW