



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[VULCAN]

Machine Id

SENNEBOGEN 875 875.5.1066

Component

Diesel Engine

Fluid

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

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0095521	JR0083763	JR0069123
Sample Date		Client Info		25 Aug 2021	01 Apr 2021	28 Oct 2020
Machine Age	hrs	Client Info		1129	757	321
Oil Age	hrs	Client Info		0	0	321
Filter Age	hrs	Client Info		0	0	321
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	20	21
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	10	16	19
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	4	10	14
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

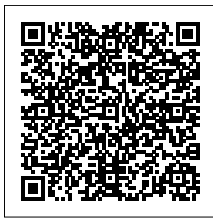
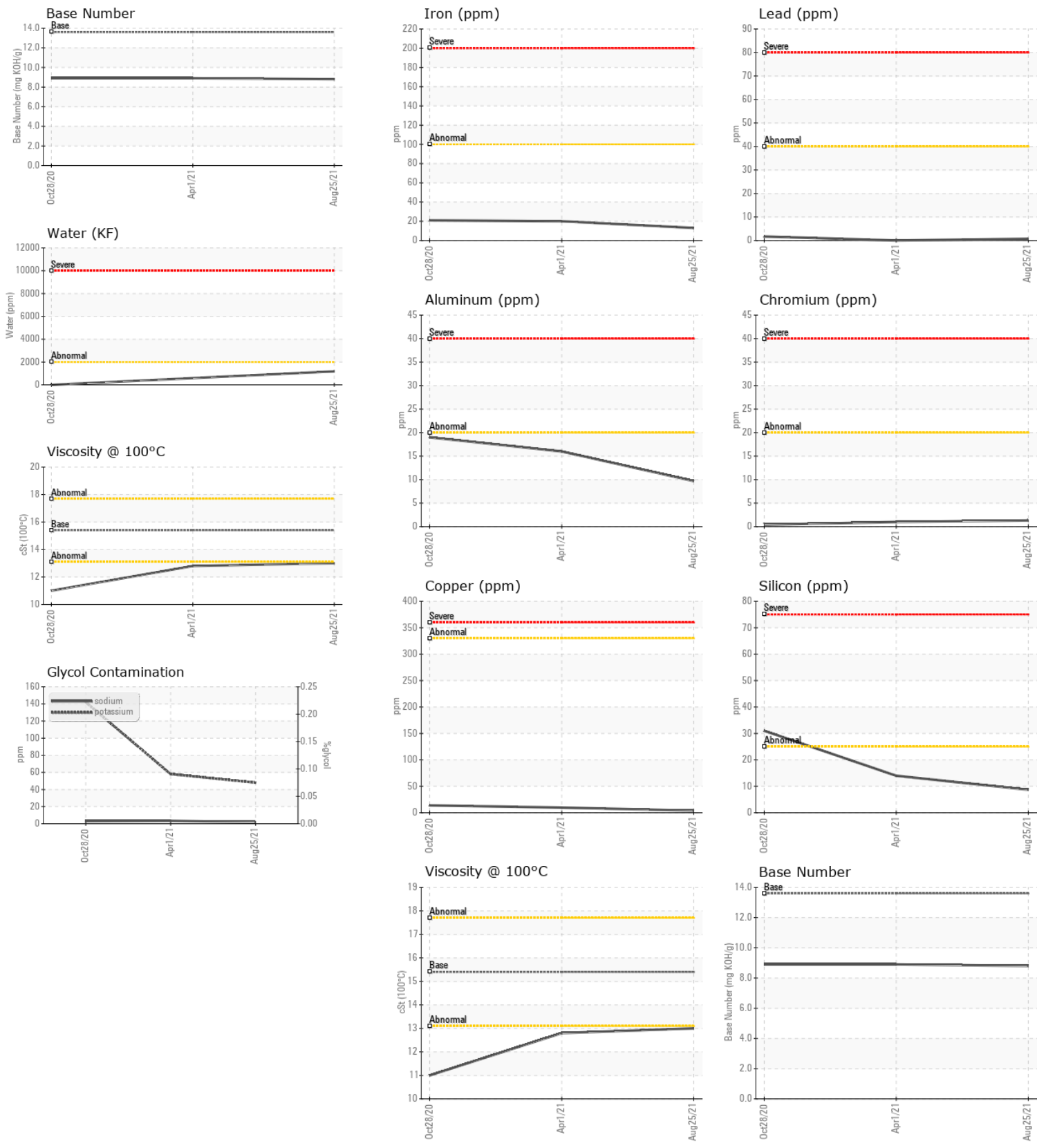
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	14	31
Potassium	ppm	ASTM D5185m	>20	48	58	▲ 142
Fuel		WC Method	>5	<1.0	<1.0	0.1
Water	%	ASTM D6304	>0.2	0.118	---	---
ppm Water	ppm	ASTM D6304	>2000	1180	---	---
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.5	9.1	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	23.6	19.7
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	>0.2	NEG	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185m		2	3	3
Boron	ppm	ASTM D5185m		263	225	87
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		253	231	54
Manganese	ppm	ASTM D5185m		<1	1	4
Magnesium	ppm	ASTM D5185m		798	810	359
Calcium	ppm	ASTM D5185m		1434	1524	1872
Phosphorus	ppm	ASTM D5185m		865	886	972
Zinc	ppm	ASTM D5185m		999	1043	1143
Sulfur	ppm	ASTM D5185m		2478	2522	2879
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	17.2	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	8.9	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	12.8	● 11.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0095521 **Received** : 26 Aug 2021  
**Lab Number** : 05335826 **Tested** : 27 Aug 2021  
**Unique Number** : 9634824 **Diagnosed** : 27 Aug 2021 - Jonathan Hester  
**Test Package** : MOBCE ( Additional Tests: Glycol, KF, TBN )

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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)