



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		JR0083763	JR0069123	---
Sample Date		Client Info		01 Apr 2021	28 Oct 2020	---
Machine Age	hrs	Client Info		757	321	---
Oil Age	hrs	Client Info		0	321	---
Filter Age	hrs	Client Info		0	321	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

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

CONTAMINATION

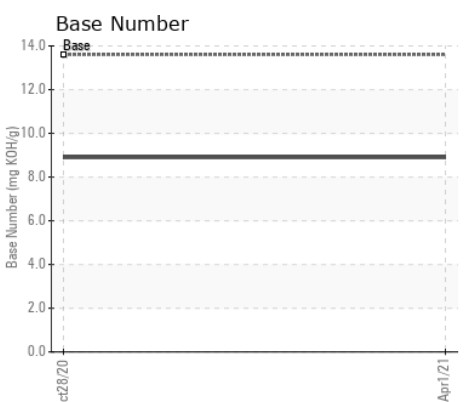
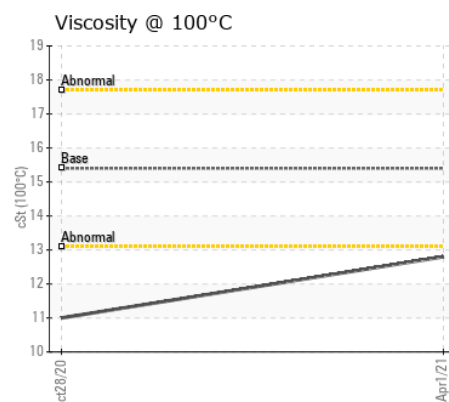
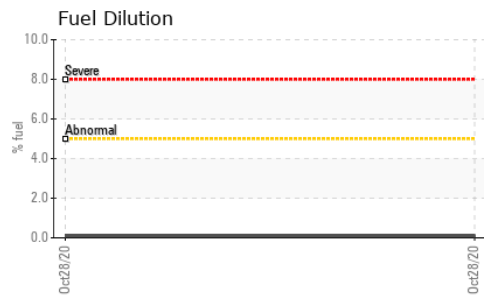
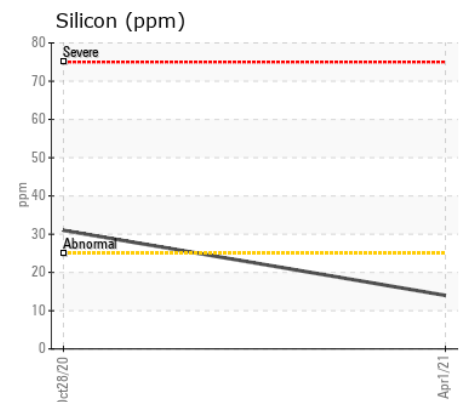
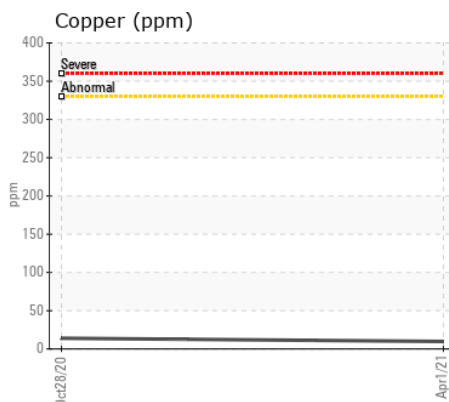
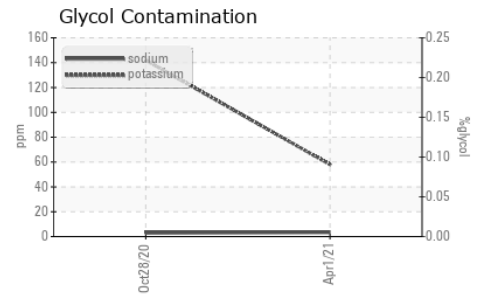
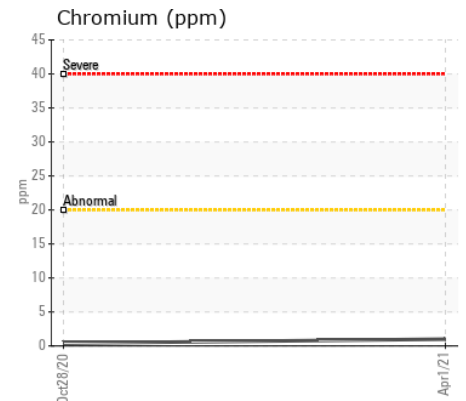
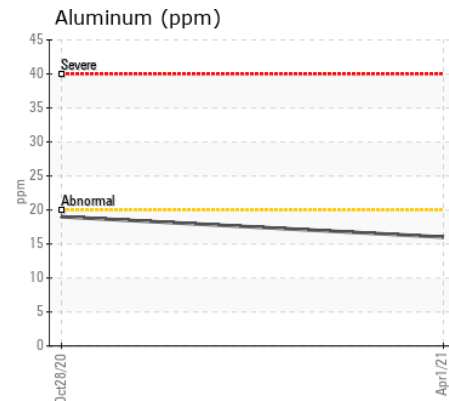
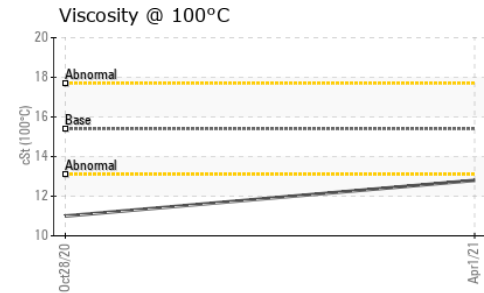
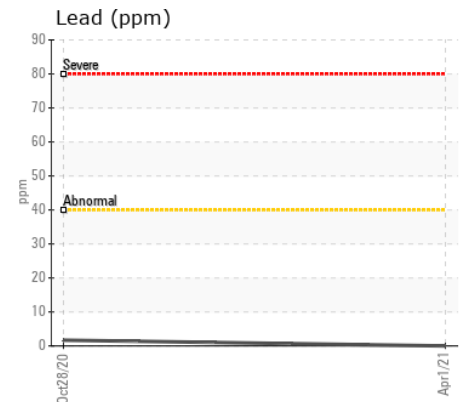
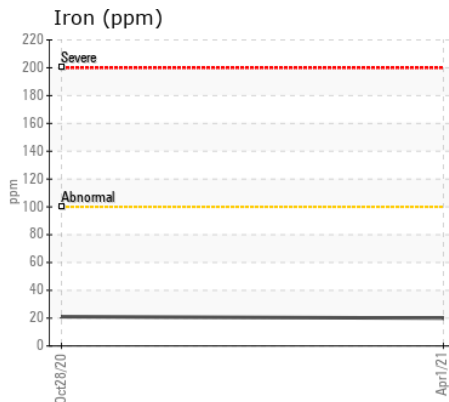
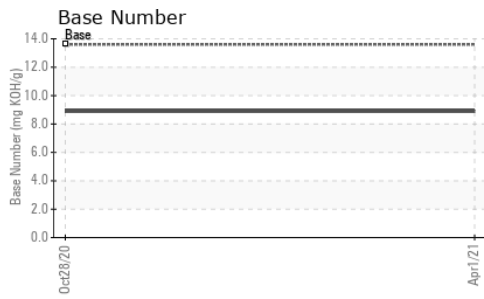
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	14	31	---
Potassium	ppm	ASTM D5185m	>20	58	▲ 142	---
Fuel	%	ASTM D3524	>5	<1.0	0.1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	*ASTM D2982		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.1	6.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	19.7	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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		3	3	---
Boron	ppm	ASTM D5185m		225	87	---
Barium	ppm	ASTM D5185m		0	2	---
Molybdenum	ppm	ASTM D5185m		231	54	---
Manganese	ppm	ASTM D5185m		1	4	---
Magnesium	ppm	ASTM D5185m		810	359	---
Calcium	ppm	ASTM D5185m		1524	1872	---
Phosphorus	ppm	ASTM D5185m		886	972	---
Zinc	ppm	ASTM D5185m		1043	1143	---
Sulfur	ppm	ASTM D5185m		2522	2879	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	14.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	8.9	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	● 11.0	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0083763 **Received** : 07 Apr 2021
Lab Number : 05224038 **Tested** : 08 Apr 2021
Unique Number : 9452936 **Diagnosed** : 08 Apr 2021 - Jonathan Hester
Test Package : MOBCE (Additional Tests: FuelDilution, Glycol, 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)