



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 1 - Cowen [HIGH COUNTRY SERVICE]
Machine Id
JOHN DEERE 848H 1DW848HXHED665648
Component
Diesel Engine
Fluid
JD BREAK IN OIL (7 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047342	LEC0039047	---
Sample Date		Client Info		31 Jan 2024	16 May 2023	---
Machine Age	hrs	Client Info		456	6907	---
Oil Age	hrs	Client Info		456	6907	---
Filter Age	hrs	Client Info		456	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	SEVERE	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	90	370	---
Chromium	ppm	ASTM D5185m	>11	3	7	---
Nickel	ppm	ASTM D5185m	>5	<1	5	---
Titanium	ppm	ASTM D5185m		<1	1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>31	9	123	---
Lead	ppm	ASTM D5185m	>26	6	105	---
Copper	ppm	ASTM D5185m	>26	72	61	---
Tin	ppm	ASTM D5185m	>4	4	20	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

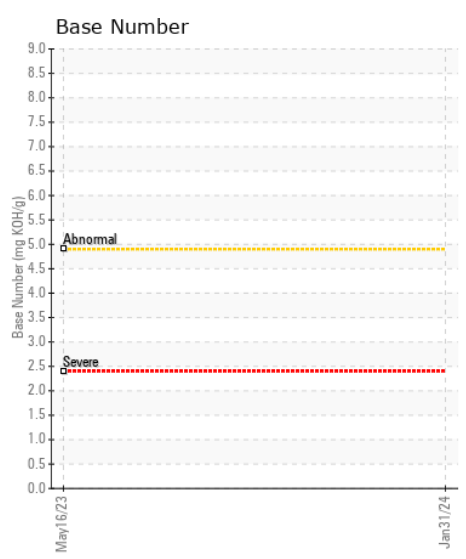
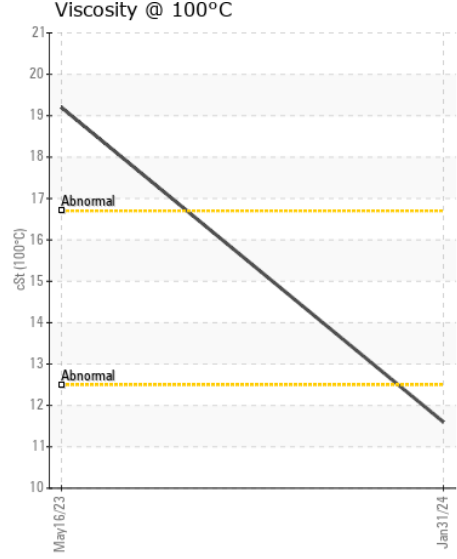
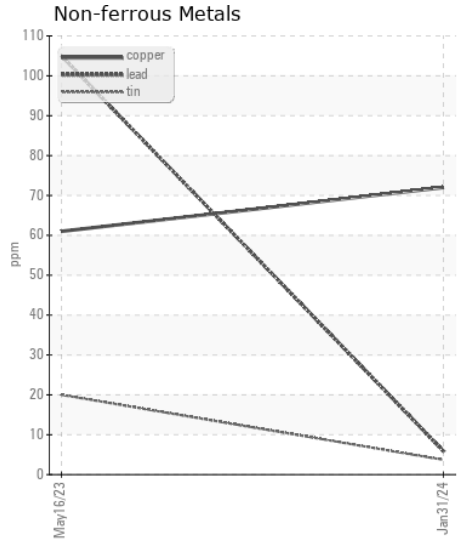
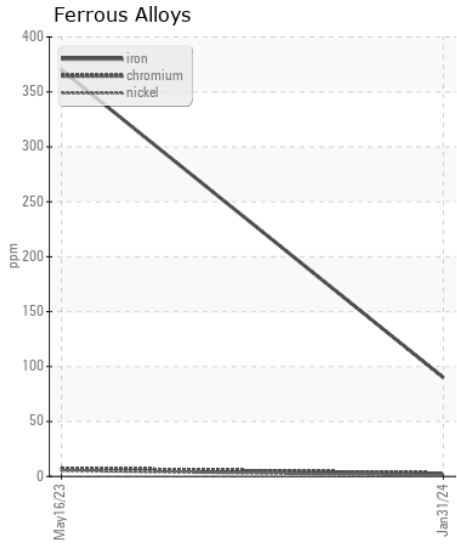
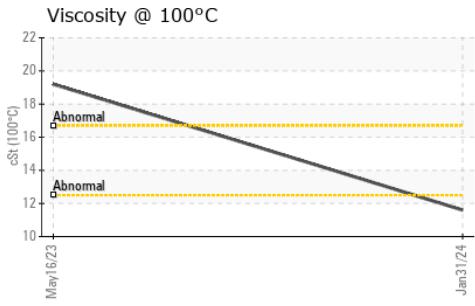
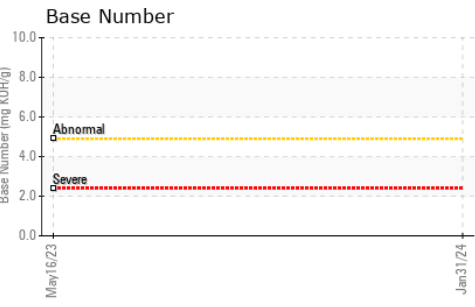
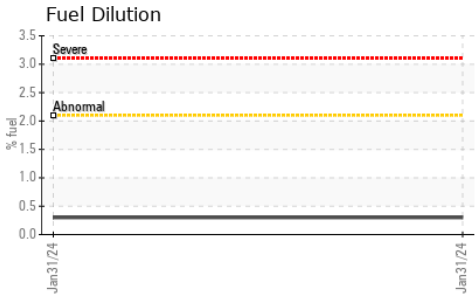
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	14	35	---
Potassium	ppm	ASTM D5185m	>20	1	3	---
Fuel	%	ASTM D3524	>2.1	0.3	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	2.5	6.2	---
Nitration	Abs/cm	*ASTM D7624	>20	10.2	17.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	36.8	---
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	>0.21	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	>31	15	3	---
Boron	ppm	ASTM D5185m		163	41	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		247	165	---
Manganese	ppm	ASTM D5185m		2	5	---
Magnesium	ppm	ASTM D5185m		797	923	---
Calcium	ppm	ASTM D5185m		1439	1699	---
Phosphorus	ppm	ASTM D5185m		849	1081	---
Zinc	ppm	ASTM D5185m		1023	1348	---
Sulfur	ppm	ASTM D5185m		2621	3409	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	28.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	---	---
Visc @ 100°C	cSt	ASTM D445		11.6	19.2	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047342 **Received** : 08 Feb 2024
Lab Number : 06083250 **Tested** : 09 Feb 2024
Unique Number : 10870695 **Diagnosed** : 09 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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)