



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**HARRIS HRB-8 BALER HPU (S/N 2358)**

Component  
**Hydraulic System**

Fluid  
**DURALENE ZD AW 46 (--- LTR)**

## RECOMMENDATION

No corrective action is recommended at this time. The 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		<b>DC0027424</b>	DC0024534	DC0008641
Sample Date		Client Info		<b>06 Dec 2023</b>	02 Aug 2023	18 Aug 2021
Machine Age	yrs	Client Info		<b>30</b>	0	0
Oil Age	yrs	Client Info		<b>3</b>	0	0
Filter Age	yrs	Client Info		<b>1</b>	1	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>18</b>	14	13
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	3	3
Lead	ppm	ASTM D5185m	>10	<b>2</b>	2	1
Copper	ppm	ASTM D5185m	>75	<b>10</b>	9	9
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

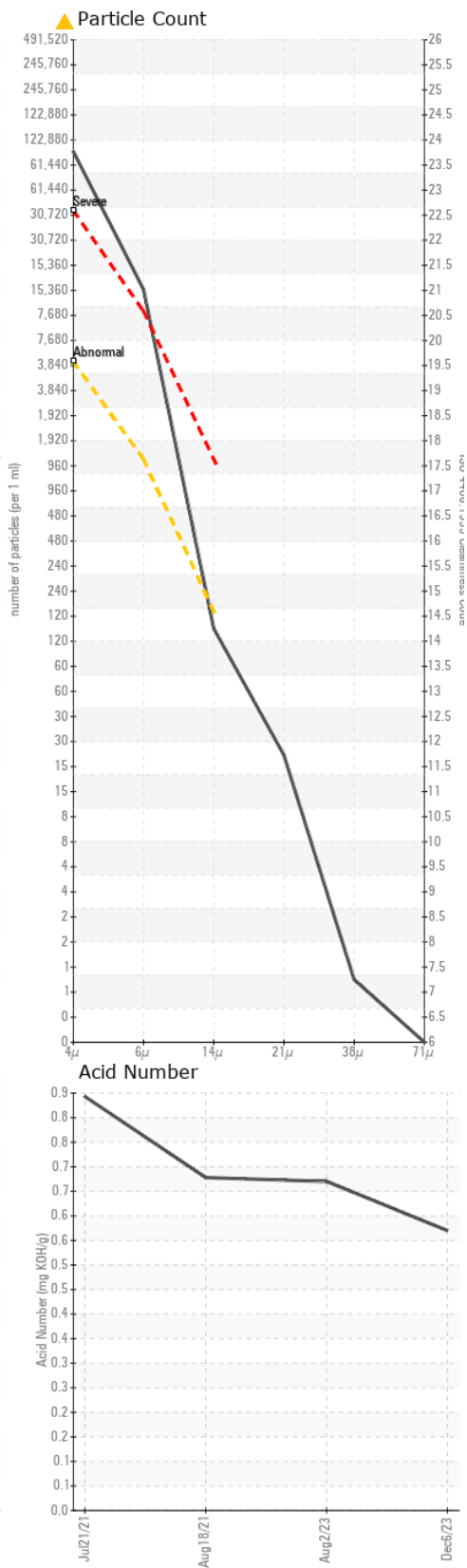
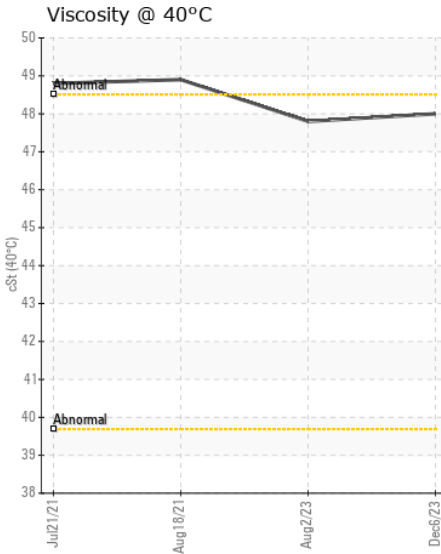
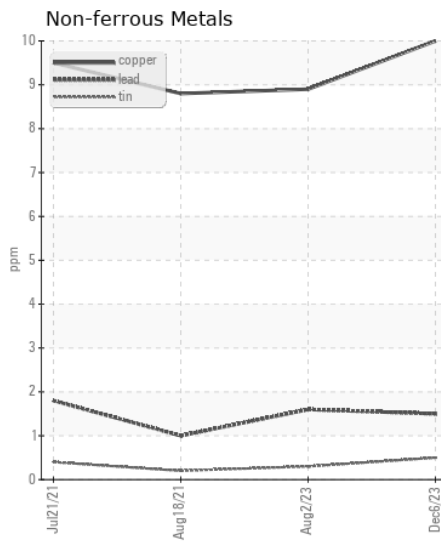
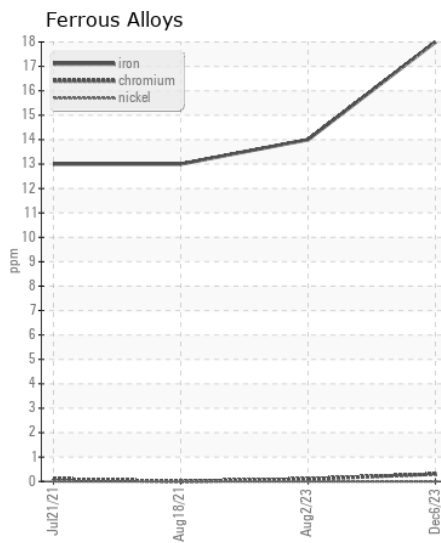
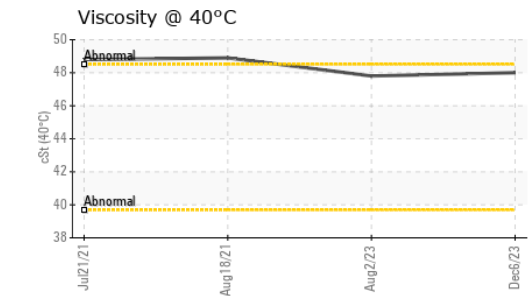
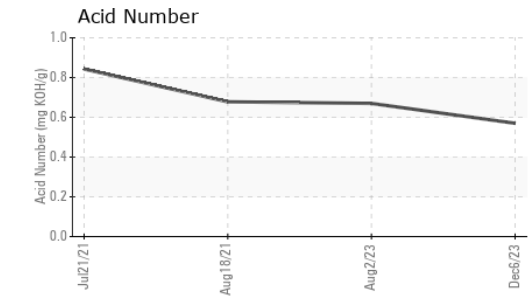
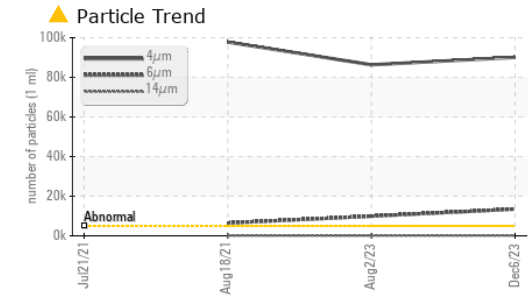
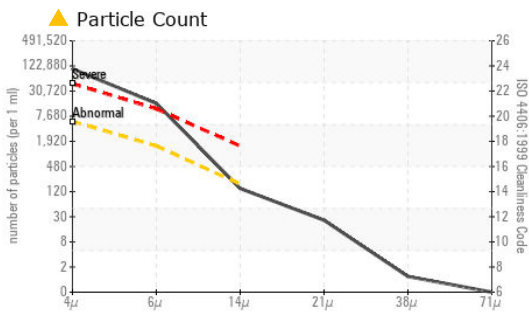
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	7	4
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 90089</b>	▲ 86318	▲ 97816
Particles >6µm		ASTM D7647	>1300	<b>▲ 13485</b>	▲ 9916	▲ 6448
Particles >14µm		ASTM D7647	>160	<b>126</b>	117	▲ 150
Particles >21µm		ASTM D7647	>40	<b>22</b>	37	36
Particles >38µm		ASTM D7647	>10	<b>1</b>	2	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 24/21/14</b>	▲ 24/20/14	▲ 24/20/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	1
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	<1	4
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>37</b>	32	16
Calcium	ppm	ASTM D5185m		<b>267</b>	256	274
Phosphorus	ppm	ASTM D5185m		<b>485</b>	449	423
Zinc	ppm	ASTM D5185m		<b>651</b>	655	614
Sulfur	ppm	ASTM D5185m		<b>4118</b>	4494	2698
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.57</b>	0.67	0.678
Visc @ 40°C	cSt	ASTM D445		<b>48.0</b>	47.8	48.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0027424 **Received** : 11 Jan 2024  
**Lab Number** : 06058723 **Diagnosed** : 14 Jan 2024  
**Unique Number** : 10830105 **Diagnostician** : Don Baldridge  
**Test Package** : MOB 2

**CONSERVIT INC.**  
 PO BOX 1517  
 HAGERSTOWN, MD  
 US 21740  
 Contact: DON LONG

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)

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