



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**HIAB 50235 - ABC**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0778100</b>	WCM2244152	---
Sample Date		Client Info		<b>15 May 2023</b>	14 Jan 2016	---
Machine Age	mths	Client Info		<b>0</b>	0	---
Oil Age	mths	Client Info		<b>0</b>	0	---
Filter Age	mths	Client Info		<b>8</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	N/A	---
Filter Changed		Client Info		<b>Not Changd</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>4</b>	1	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>75	<b>5</b>	2	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

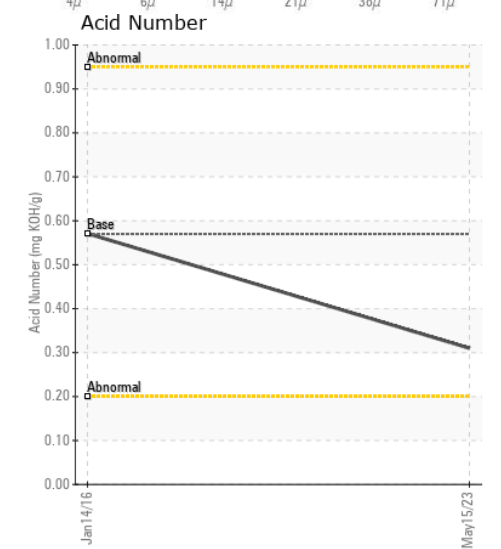
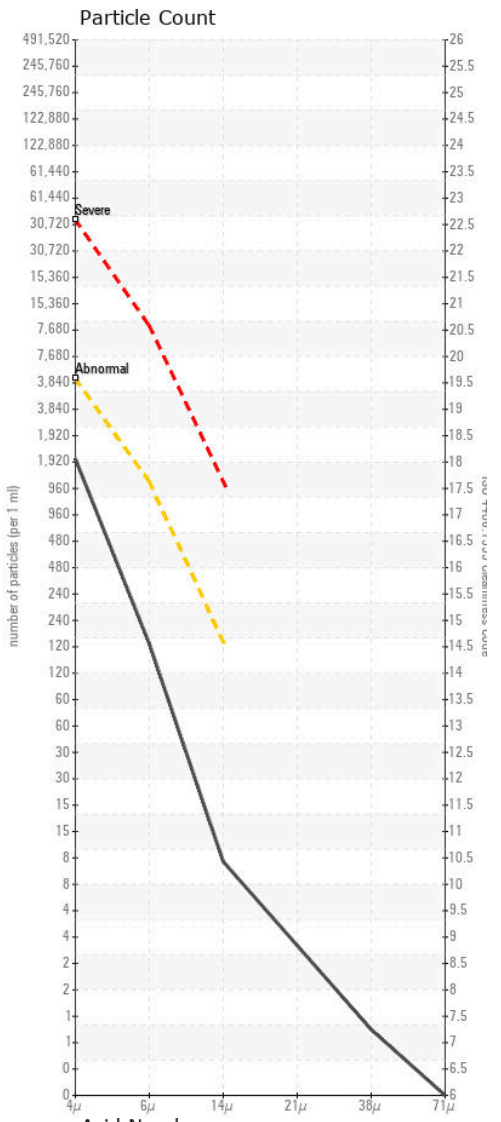
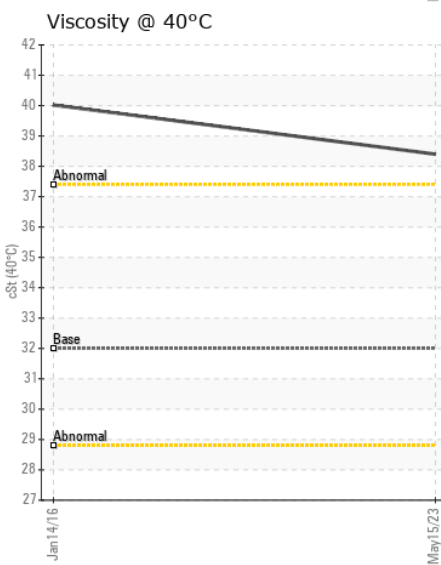
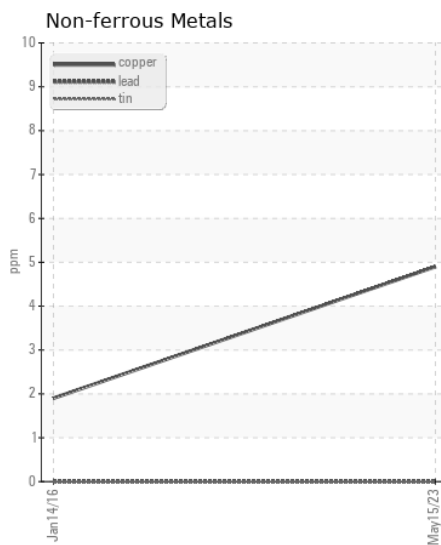
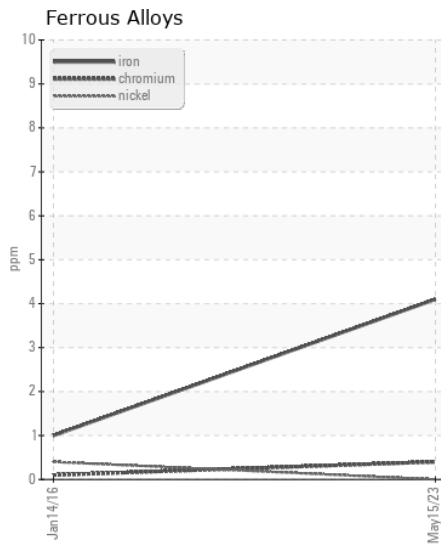
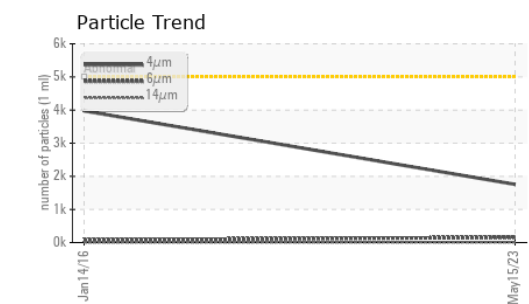
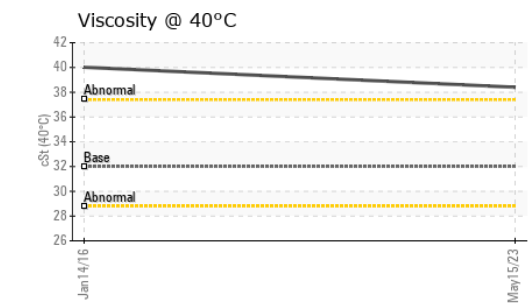
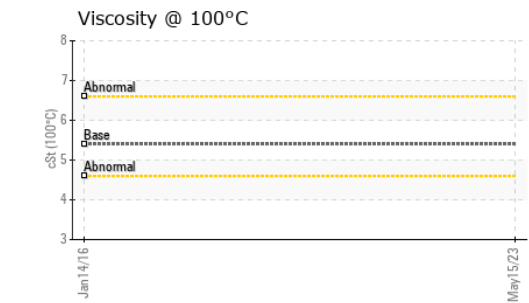
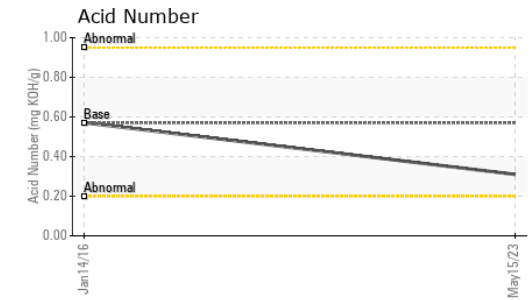
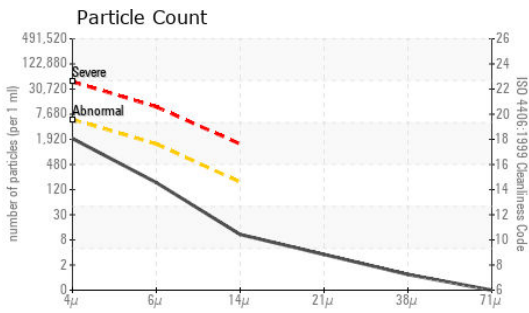
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>1756</b>	3975	---
Particles >6µm		ASTM D7647	>1300	<b>156</b>	81	---
Particles >14µm		ASTM D7647	>160	<b>9</b>	7	---
Particles >21µm		ASTM D7647	>40	<b>3</b>	2	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/14/10</b>	19/14/10	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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>1</b>	<1	---
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	25	<b>4</b>	6	---
Calcium	ppm	ASTM D5185m	200	<b>60</b>	51	---
Phosphorus	ppm	ASTM D5185m	300	<b>390</b>	351	---
Zinc	ppm	ASTM D5185m	370	<b>390</b>	450	---
Sulfur	ppm	ASTM D5185m	2500	<b>4759</b>	3992	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.31</b>	0.571	---
Visc @ 40°C	cSt	ASTM D445	32	<b>38.4</b>	40.02	---
Visc @ 100°C	cSt	ASTM D445	5.4	<b>6.9</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270	102	<b>140</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0778100 **Received** : 01 Jun 2023  
**Lab Number** : 05862393 **Diagnosed** : 03 Jun 2023  
**Unique Number** : 10496858 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

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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