



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HIAB 25377/50843 - 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		WC0833665	WC0558800	WC0399571
Sample Date		Client Info		03 Jan 2024	11 Jan 2022	02 Feb 2021
Machine Age	yrs	Client Info		5	6	0
Oil Age	yrs	Client Info		5	6	0
Filter Age	yrs	Client Info		1	1	1
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<1	2	<1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	1	0
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	2	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

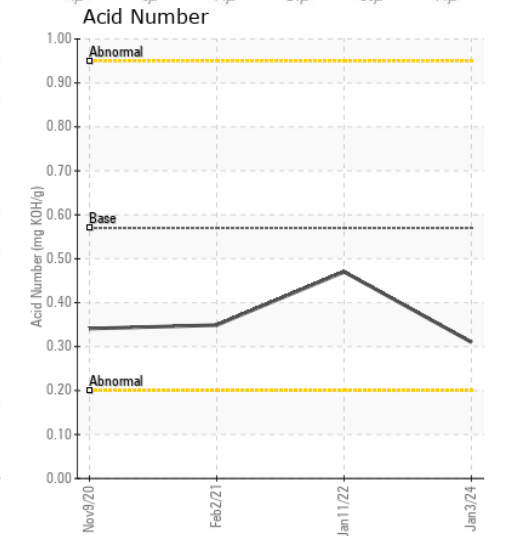
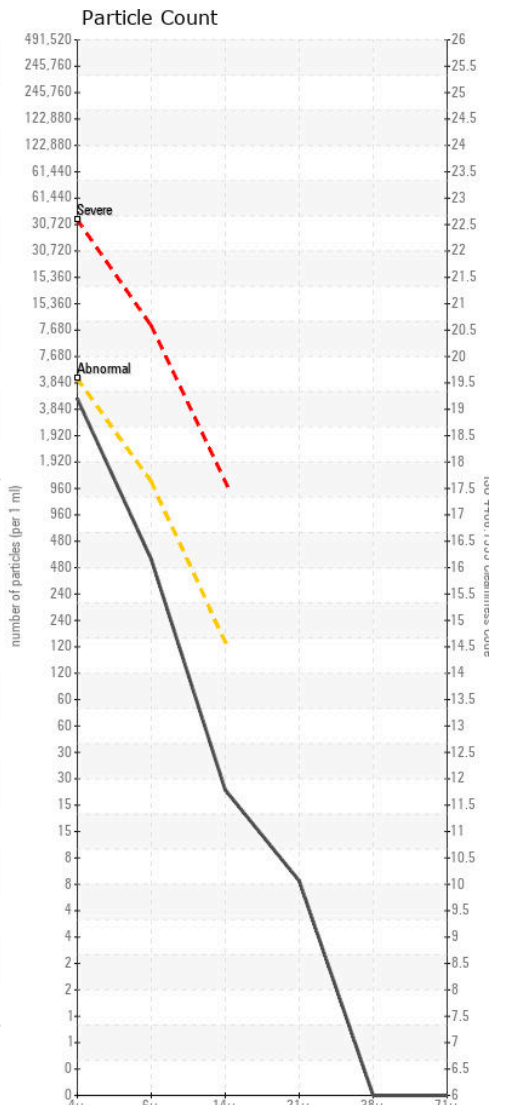
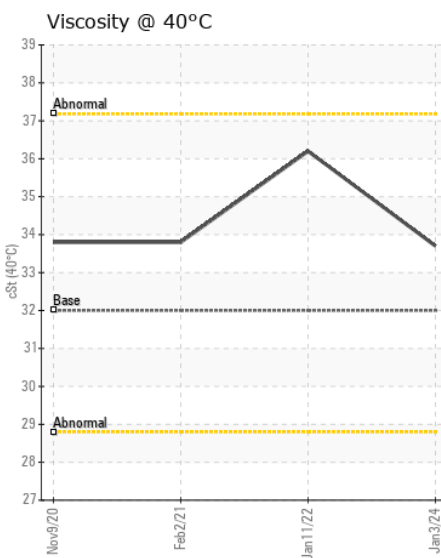
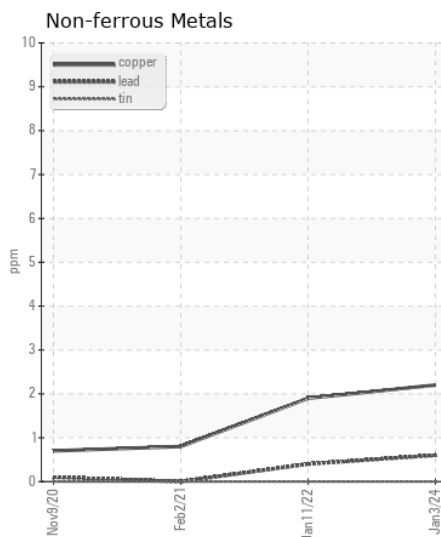
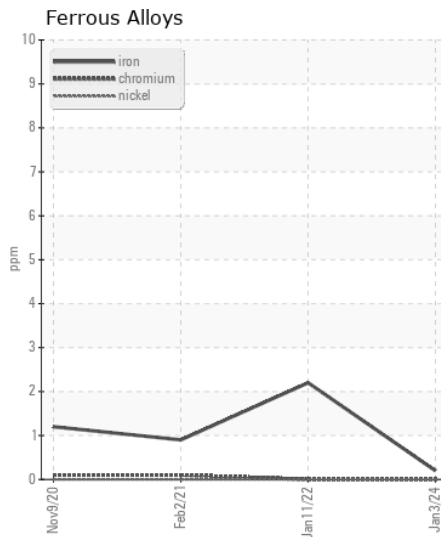
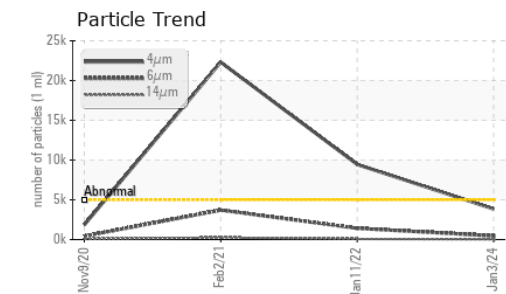
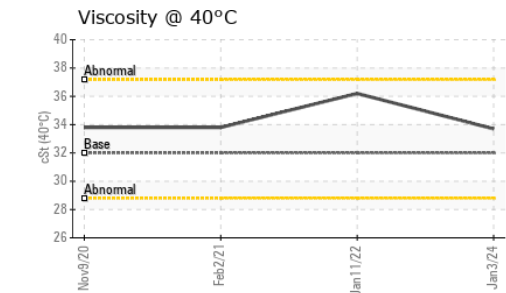
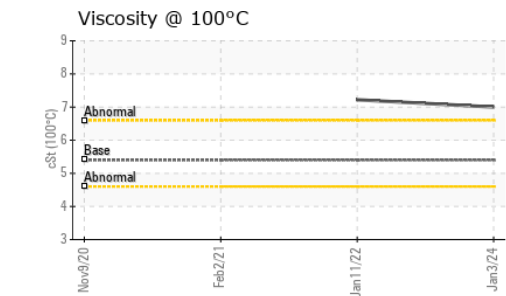
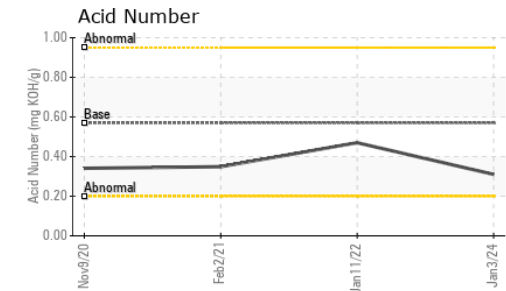
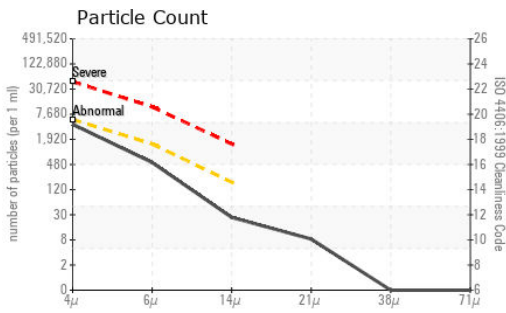
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	3846	▲ 9449	▲ 22310
Particles >6µm		ASTM D7647	>1300	470	▲ 1417	▲ 3709
Particles >14µm		ASTM D7647	>160	23	73	▲ 250
Particles >21µm		ASTM D7647	>40	7	25	▲ 83
Particles >38µm		ASTM D7647	>10	0	5	8
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	▲ 20/18/13	▲ 22/19/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	LIGHT
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	>0.1	NEG	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		1	0	0
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	<1	0	<1
Calcium	ppm	ASTM D5185m	200	80	46	85
Phosphorus	ppm	ASTM D5185m	300	414	355	420
Zinc	ppm	ASTM D5185m	370	204	427	214
Sulfur	ppm	ASTM D5185m	2500	3033	3794	2680
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.31	0.47	0.349
Visc @ 40°C	cSt	ASTM D445	32	33.7	36.2	33.8
Visc @ 100°C	cSt	ASTM D445	5.4	7	7.22	---
Viscosity Index (VI)	Scale	ASTM D2270	102	175	168	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0833665 **Received** : 23 Feb 2024
Lab Number : 06099126 **Tested** : 26 Feb 2024
Unique Number : 10897356 **Diagnosed** : 27 Feb 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KV100, VI)

HIAB USA - ROCHESTER
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 ROCHESTER, NY
 US 14611-2807
 Contact: RON SCALERA
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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)

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