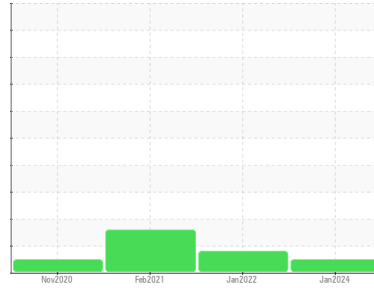




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
HIAB 25377/50843 - ABC

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	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
Oil Changed	Client Info			Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
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
Antimony	ppm	ASTM D5185m		---	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

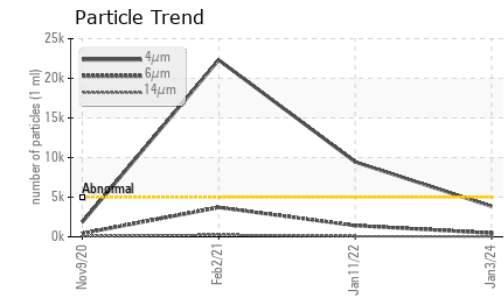
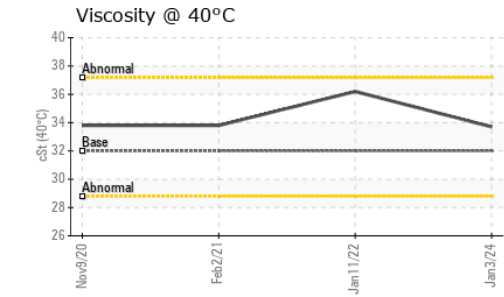
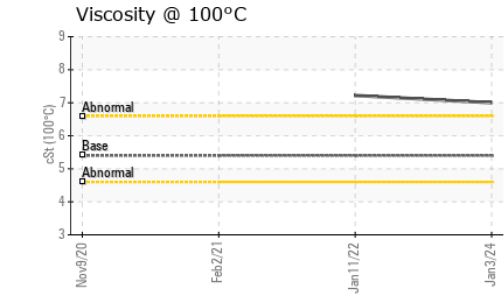
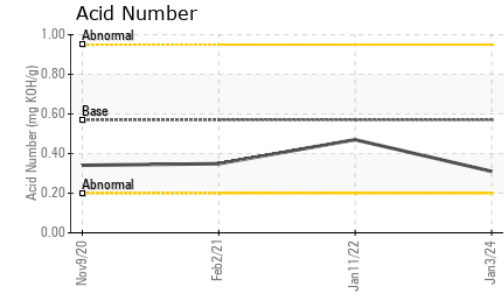
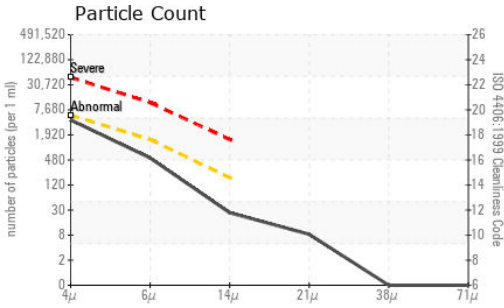
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	<1	0	<1
Calcium	ppm	ASTM D5185m	200	80	46	85
Phosphorus	ppm	ASTM D5185m	300	414	355	420
Zinc	ppm	ASTM D5185m	370	204	427	214
Sulfur	ppm	ASTM D5185m	2500	3033	3794	2680

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
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



OIL ANALYSIS REPORT



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
 1005 CHILI AVE STE 1
 ROCHESTER, NY
 US 14611-2807
 Contact: RON SCALERA
 ron.scalera@hiab.com

Certificate L2367
 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)

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.31	0.47	0.349

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
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	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

