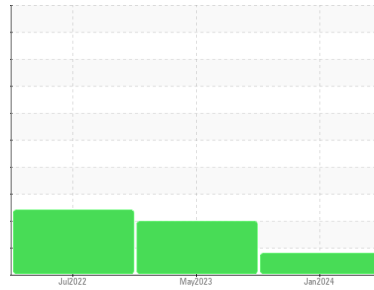




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KB4039 - BEACON

Component
Hydraulic System

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

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present 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		WC0812273	WC0778087	WC0679388
Sample Date	Client Info		08 Jan 2024	24 May 2023	07 Jul 2022
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	Not Changd
Sample Status			ATTENTION	ABNORMAL	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	2	1	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
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	1	2	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	2	1	2
Tin	ppm	ASTM D5185m	>10	0	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	3
Barium	ppm	ASTM D5185m	5	0	4	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	3	2	<1
Calcium	ppm	ASTM D5185m	200	73	46	46
Phosphorus	ppm	ASTM D5185m	300	355	300	337
Zinc	ppm	ASTM D5185m	370	414	380	417
Sulfur	ppm	ASTM D5185m	2500	4926	4938	5745

CONTAMINANTS

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

FLUID CLEANLINESS

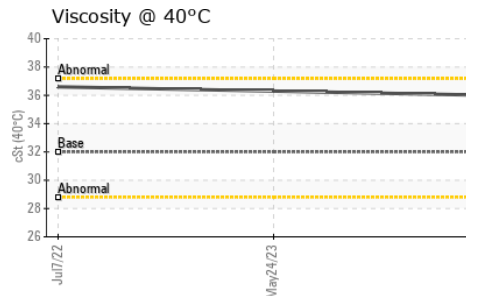
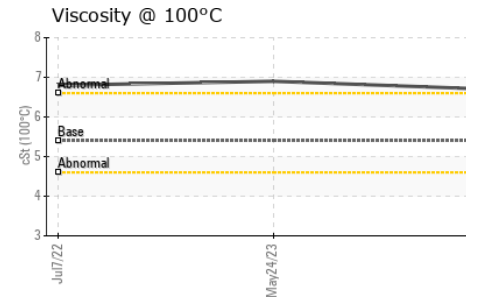
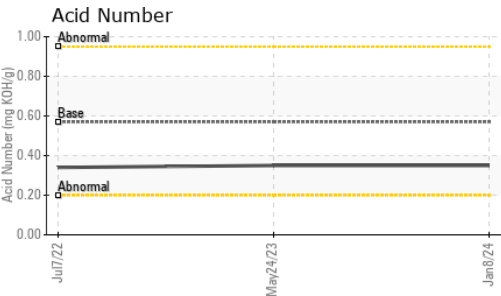
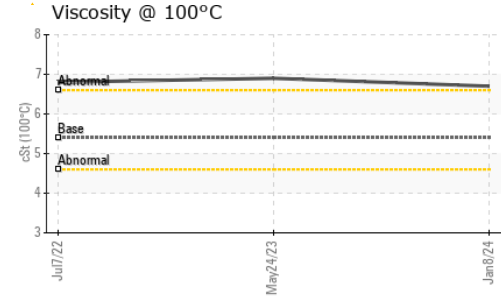
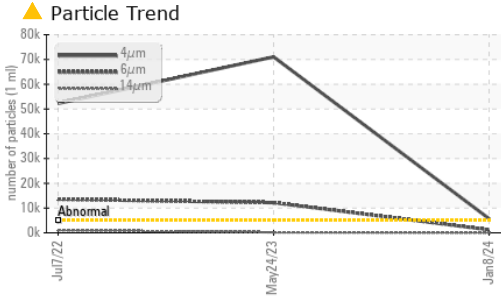
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 5710	▲ 71041	▲ 52256
Particles >6µm	ASTM D7647	>1300	1249	▲ 12184	▲ 13576
Particles >14µm	ASTM D7647	>160	61	▲ 186	▲ 1046
Particles >21µm	ASTM D7647	>40	12	▲ 44	▲ 217
Particles >38µm	ASTM D7647	>10	1	1	▲ 17
Particles >71µm	ASTM D7647	>3	0	0	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/17/13	▲ 23/21/15	▲ 23/21/17

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.35	0.35	0.34



OIL ANALYSIS REPORT

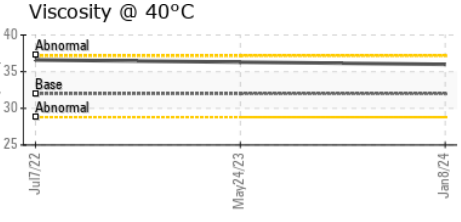
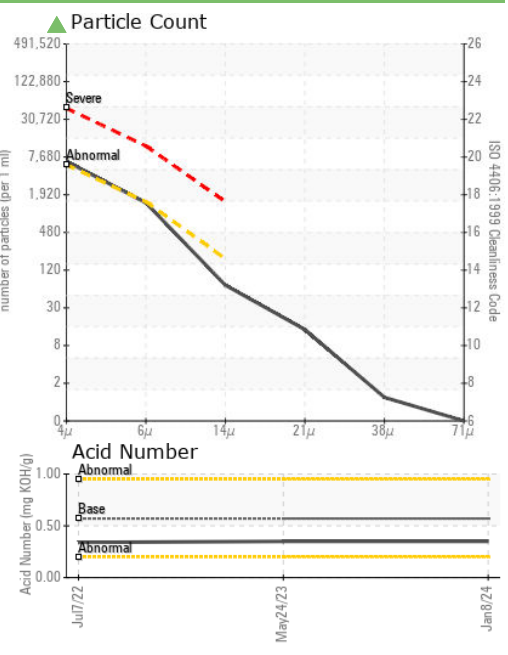
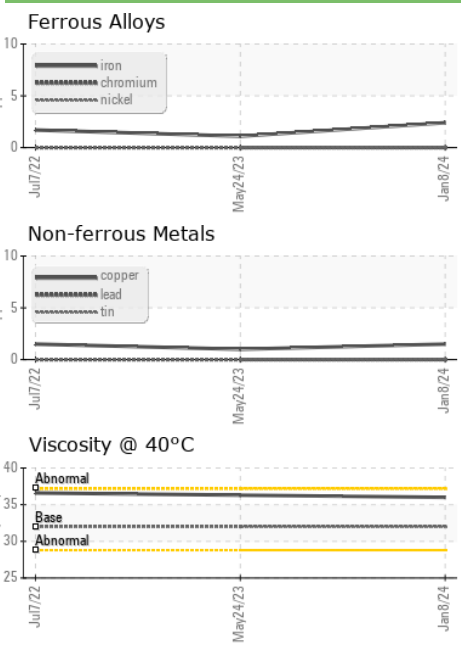


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	36.3	36.6
Visc @ 100°C	cSt	ASTM D445	5.4	6.9	6.8
Viscosity Index (VI)	Scale	ASTM D2270	102	152	146

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0812273

Lab Number : 06062653

Unique Number : 10834035

Test Package : MOB 2 (Additional Tests: KV100, VI)

Recieved : 17 Jan 2024

Diagnosed : 19 Jan 2024

Diagnostician : Jonathan Hester

HIAB USA - MIDATLANTIC

18627 STARCREEK DR
CORNELIUS, NC
US 28031

Contact: SWANN MCCLURE
swann.mcclure@cargotec.com
T: (704)896-9089
F: (704)895-4801

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)

