



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TK22875 - ABC HYATTSVILLE

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		WC0716915	WC0636234	WC0612901
Sample Date		Client Info		24 Jan 2023	21 Apr 2022	16 Dec 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	6	5	6
Chromium	ppm	ASTM D5185m	>10	<1	<1	<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	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	3	3	3
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

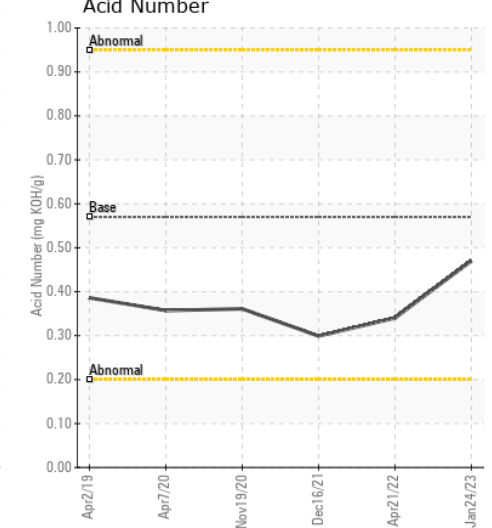
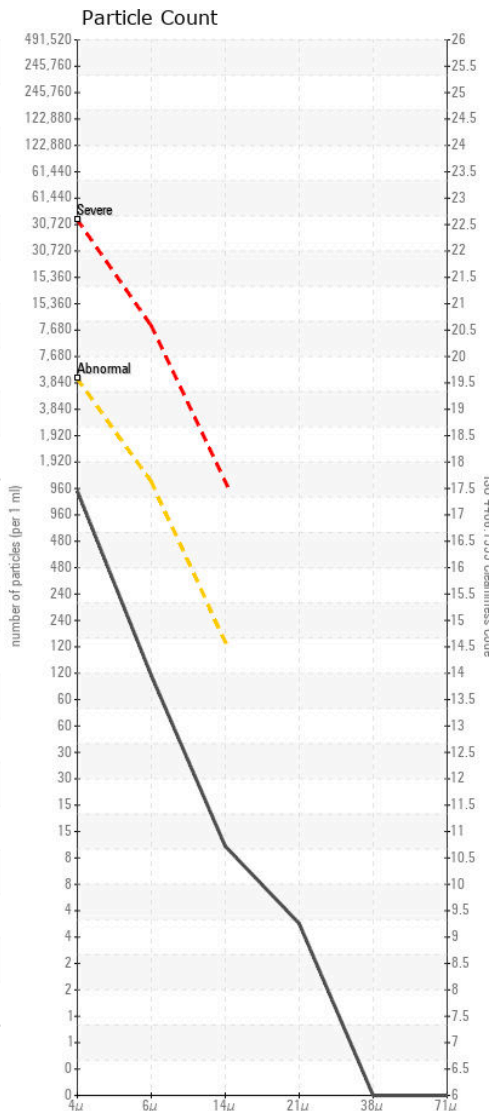
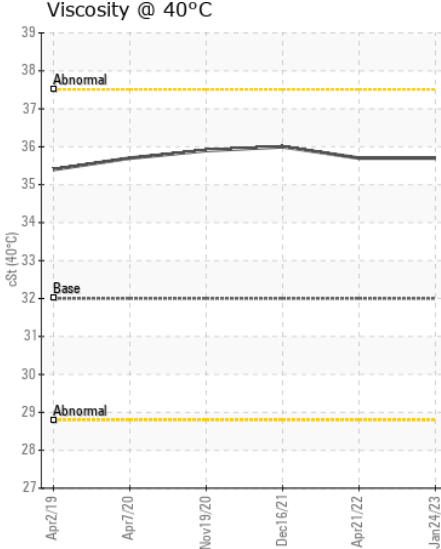
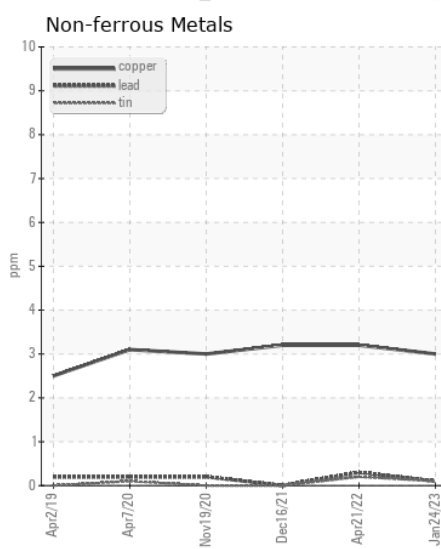
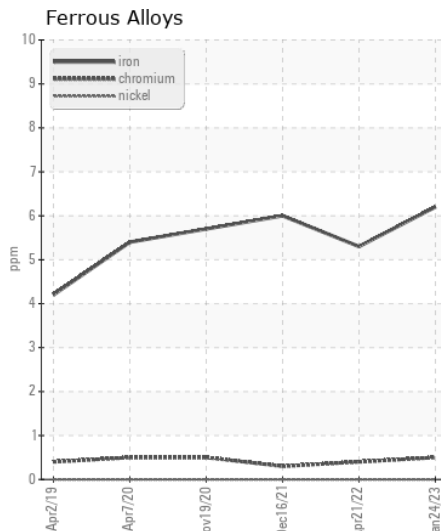
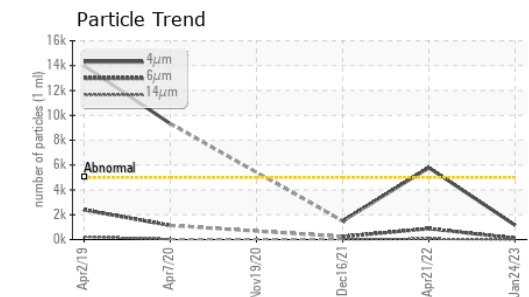
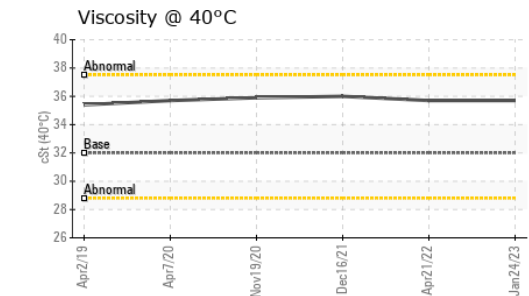
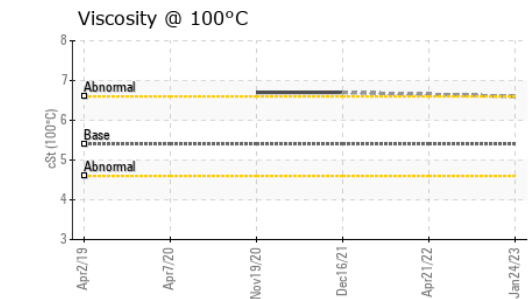
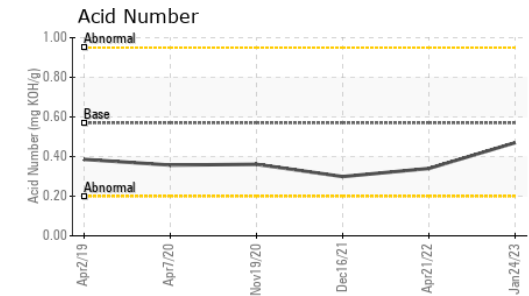
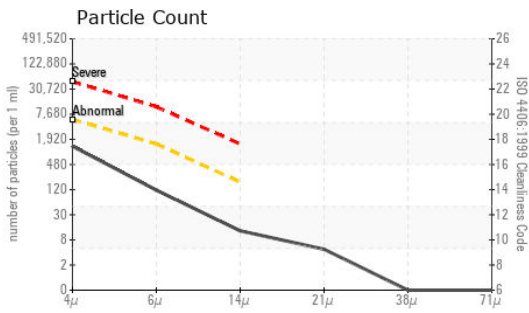
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1151	▲ 5782	1497
Particles >6µm		ASTM D7647	>1300	103	877	232
Particles >14µm		ASTM D7647	>160	11	54	24
Particles >21µm		ASTM D7647	>40	4	10	6
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/11	▲ 20/17/13	18/15/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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		0	0	<1
Boron	ppm	ASTM D5185m	5	0	<1	5
Barium	ppm	ASTM D5185m	5	2	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	25	3	3	2
Calcium	ppm	ASTM D5185m	200	65	68	65
Phosphorus	ppm	ASTM D5185m	300	355	348	335
Zinc	ppm	ASTM D5185m	370	447	450	409
Sulfur	ppm	ASTM D5185m	2500	4681	3679	3647
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.47	0.34	0.299
Visc @ 40°C	cSt	ASTM D445	32	35.7	35.7	36.0
Visc @ 100°C	cSt	ASTM D445	5.4	6.6	---	6.7
Viscosity Index (VI)	Scale	ASTM D2270	102	141	---	145



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0716915 **Received** : 26 Jan 2023
Lab Number : 05750799 **Diagnosed** : 30 Jan 2023
Unique Number : 10310403 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV100, VI)

HIAB USA - HAGERSTOWN
 148 WESTERN MARYLAND PKWY
 HAGERSTOWN, MD
 US 21740
 Contact: CHUCK WISHARD
 CHUCK.WISHARD@HIAB.COM
 T: (240)625-0045
 F: (301)797-7284

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)