



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
HORNO
 Component
Hydraulic System
 Fluid
ANDEROL BIO GUARD FRHF 46 (--- LTR)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN06060252	AN06060237	AN05974961
Sample Date		Client Info		10 Nov 2023	04 Oct 2023	01 Sep 2023
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				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

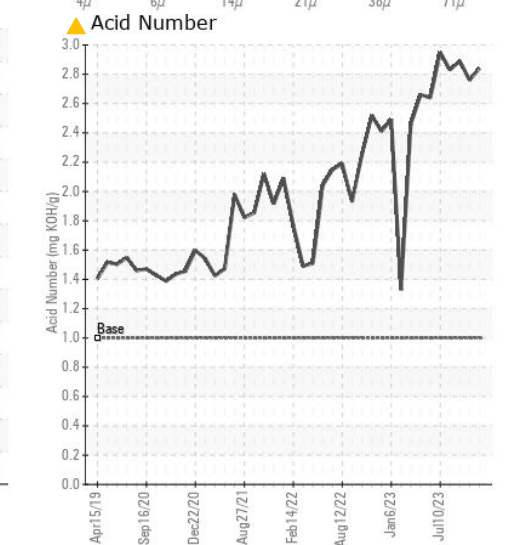
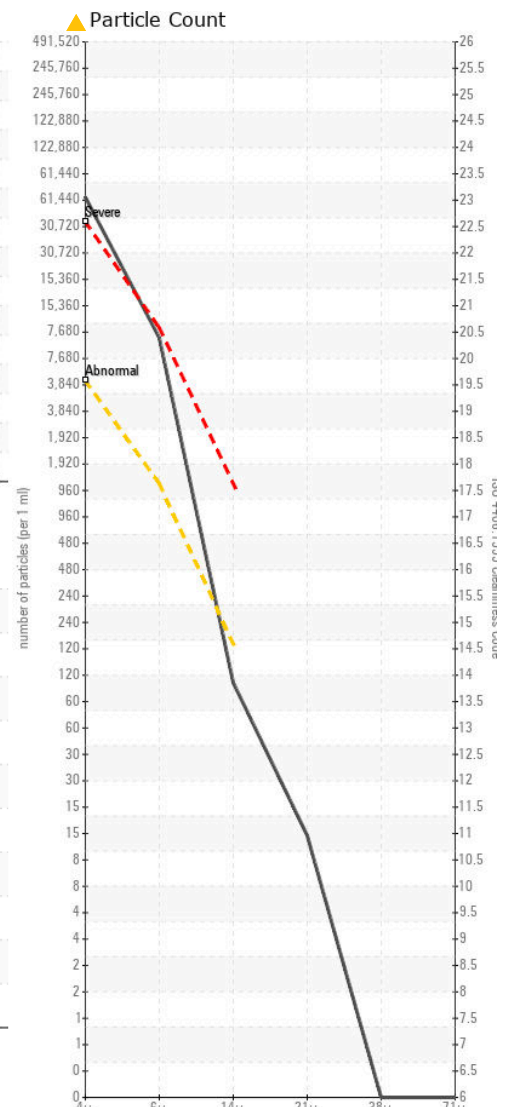
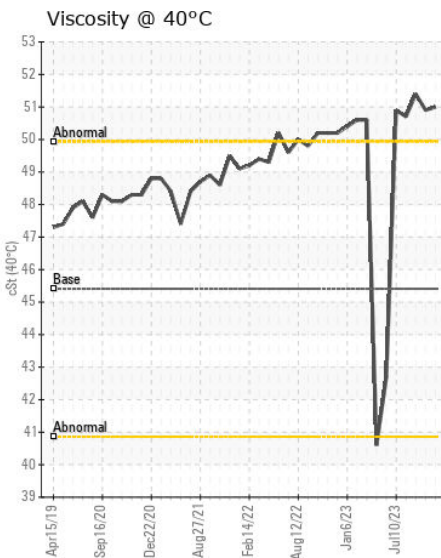
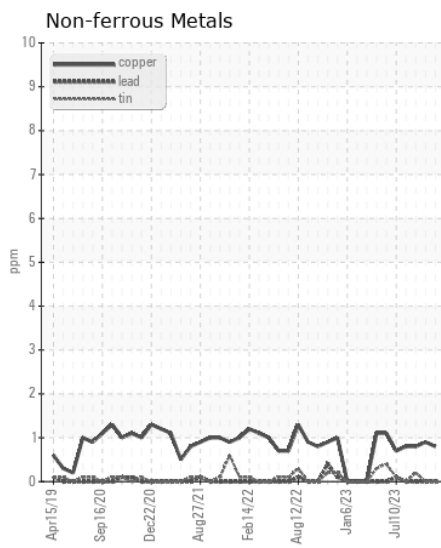
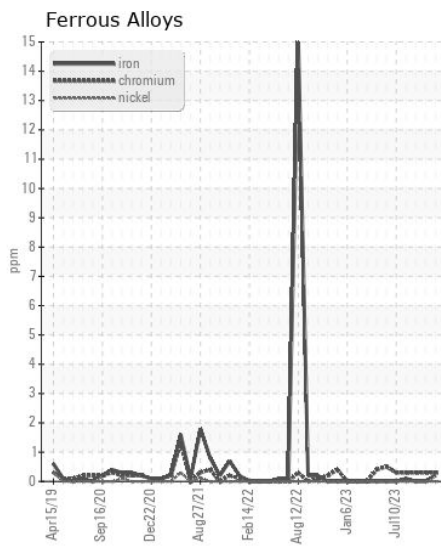
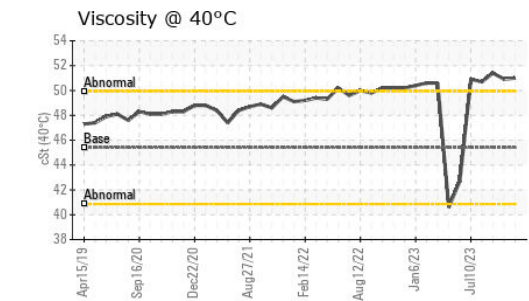
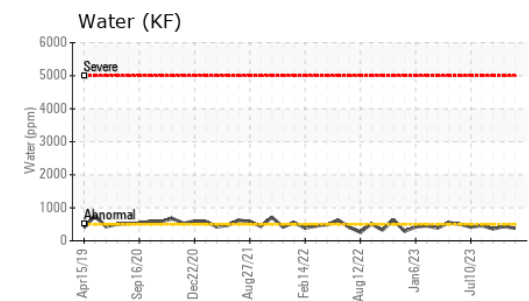
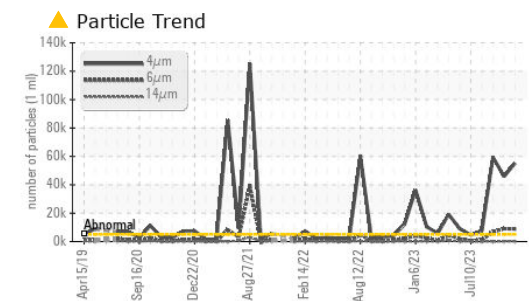
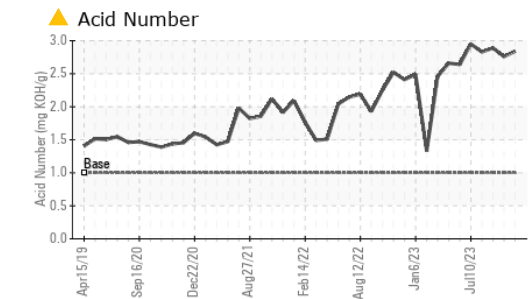
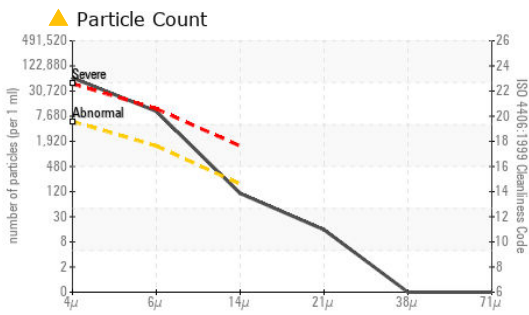
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	1	1	2
Water	%	ASTM D6304	>0.05	0.038	0.043	0.036
ppm Water	ppm	ASTM D6304	>500	384	436	362.6
Particles >4µm		ASTM D7647	>5000	▲ 55192	▲ 45804	▲ 59519
Particles >6µm		ASTM D7647	>1300	▲ 8761	▲ 9074	▲ 6928
Particles >14µm		ASTM D7647	>160	96	▲ 249	82
Particles >21µm		ASTM D7647	>40	13	▲ 67	19
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/20/14	▲ 23/20/15	▲ 23/20/14
Silt	scalar	*Visual	NONE	NONE	LIGHT	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	>0.05	NEG	NEG	NEG

FLUID CONDITION

The AN level is at the top-end of the recommended limit. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	0	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	4
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m	196	230	234	201
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	1440	1680	1750	1605
Acid Number (AN)	mg KOH/g	ASTM D8045	1	▲ 2.84	▲ 2.76	2.89
Visc @ 40°C	cSt	ASTM D445	45.41	51.0	50.9	51.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN06060252 **Received** : 12 Jan 2024
Lab Number : 06060252 **Diagnosed** : 22 Jan 2024
Unique Number : 10831634 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: PrtCount)

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)

CONEXO INC
 2320 STARR LAKE DRIVE
 ACWORTH, GA
 US 30101
 Contact: RICARDO HEIN
 rhein@conexoinc.com
 T: (678)806-0131
 F: x: