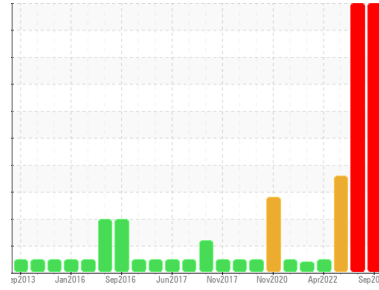




PROBLEM SUMMARY

Sample Rating Trend



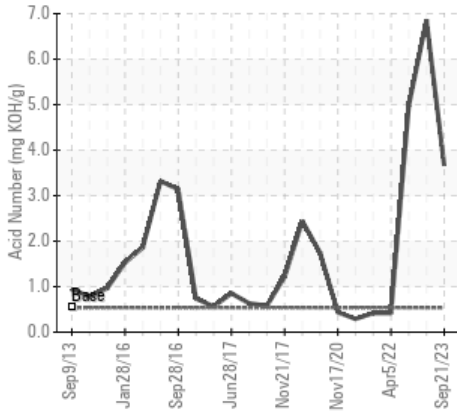
WEAR



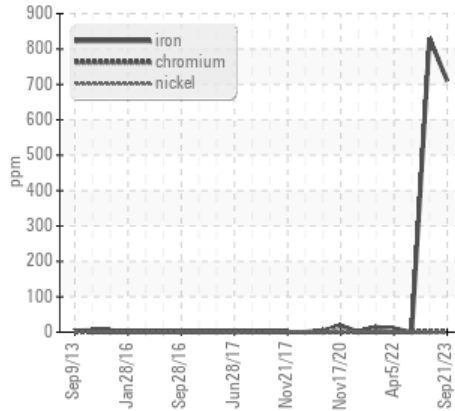
Area
CHEMLUBE PLUS 10 [117883]
 Machine Id
INGERSOLL RAND EE1739U99057 - DMAX LTD (S/N EE1739U93057)
 Component
Compressor

COMPONENT CONDITION SUMMARY

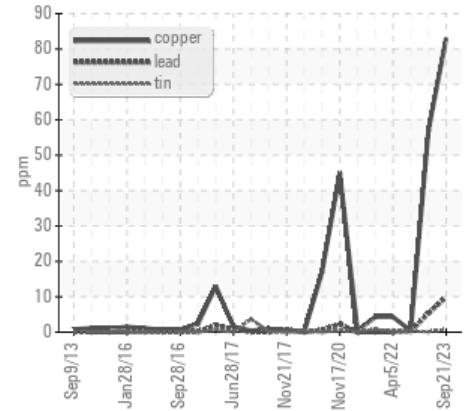
Acid Number



Ferrous Alloys



Non-ferrous Metals



RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>50	710	831	0
Copper	ppm	ASTM D5185m	>50	83	57	<1
Acid Number (AN)	mg KOH/g	ASTM D8045	0.537	3.67	6.857	4.973

Customer Id: UCAIRSID
 Sample No.: UCH05965466
 Lab Number: 05965466
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

06 Sep 2023 Diag: Jonathan Hester

WEAR



Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. The copper level is abnormal. There is no indication of any contamination in the oil. The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

view report



04 Jan 2023 Diag: Jonathan Hester

DEGRADATION



We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish.

view report



05 Apr 2022 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

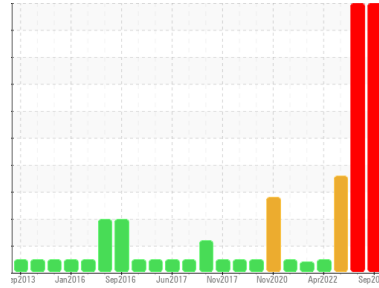
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
CHEMLUBE PLUS 10 [117883]
 Machine Id
INGERSOLL RAND EE1739U99057 - DMAX LTD (S/N EE1739U93057)
 Component
Compressor

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The iron level is severe. The copper level is abnormal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		UCH05965466	UCH05950314	UCH05749605
Sample Date	Client Info		21 Sep 2023	06 Sep 2023	04 Jan 2023
Machine Age	hrs	Client Info	90763	90903	85981
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	Changed	N/A
Sample Status			SEVERE	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	710	831	0
Chromium	ppm	ASTM D5185m >10	<1	<1	0
Nickel	ppm	ASTM D5185m	2	1	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	0	0
Lead	ppm	ASTM D5185m >25	10	5	<1
Copper	ppm	ASTM D5185m >50	83	57	<1
Tin	ppm	ASTM D5185m >15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0.1	0	0	0
Barium	ppm	ASTM D5185m 0.8	4	8	2
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m 0.9	9	7	0
Magnesium	ppm	ASTM D5185m 0	6	4	0
Calcium	ppm	ASTM D5185m 0	2	0	<1
Phosphorus	ppm	ASTM D5185m 409	248	107	156
Zinc	ppm	ASTM D5185m 0	35	33	43
Sulfur	ppm	ASTM D5185m 1290	513	150	602

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	1	2	<1
Sodium	ppm	ASTM D5185m	1	9	1
Potassium	ppm	ASTM D5185m >20	1	3	0

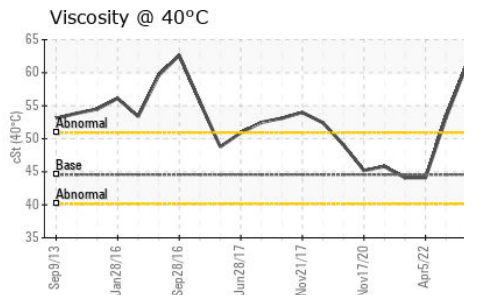
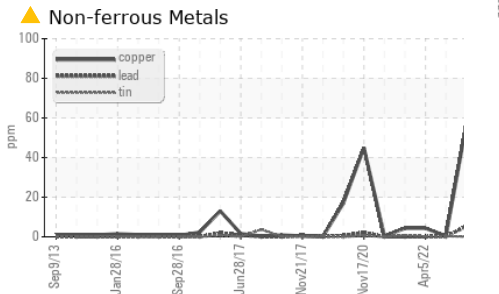
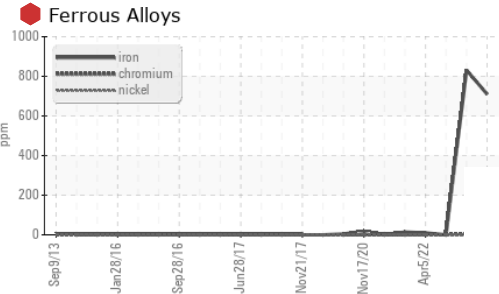
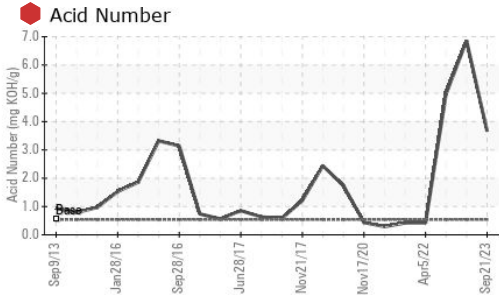
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.537	3.67	6.857	4.973

VISUAL

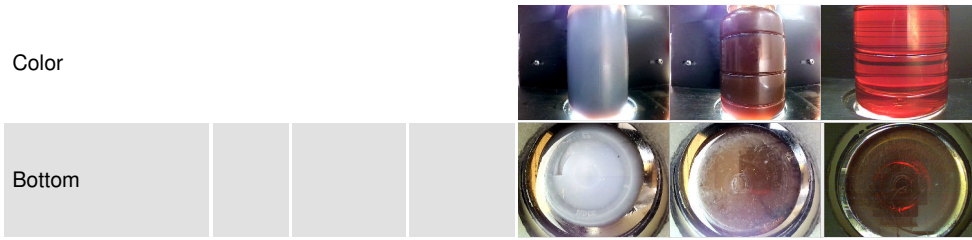
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	LIGHT	LIGHT	NONE
Debris	scalar	*Visual NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual NONE	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

OIL ANALYSIS REPORT

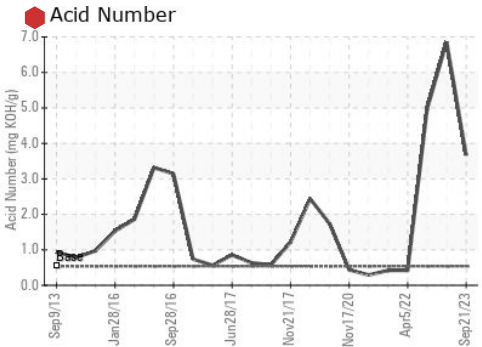
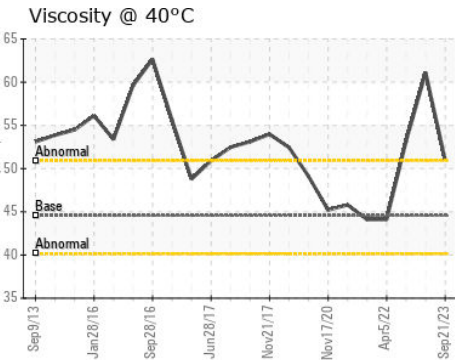
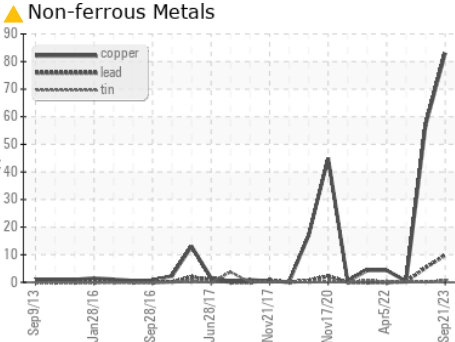
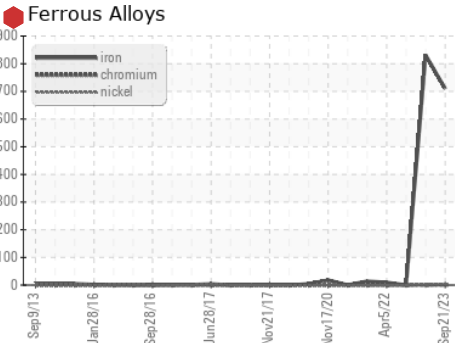


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.56	51.0	▲ 61.1	▲ 53.2

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH05965466 **Received** : 29 Sep 2023
Lab Number : 05965466 **Diagnosed** : 02 Oct 2023
Unique Number : 10672017 **Diagnostician** : Don Baldrige
Test Package : IND 2

AIR HANDLING EQUIPMENT INC
 1389 RIVERSIDE DR
 SIDNEY, OH
 US 45365
 Contact: CRISTI CURL
 cristi@ahequip.net
 T:
 F: (937)492-3147

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)