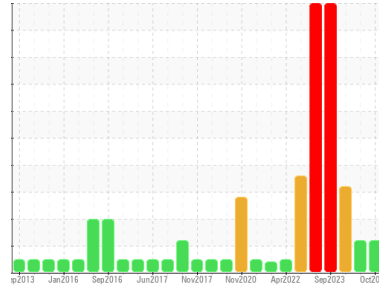




PROBLEM SUMMARY

Area
CHEMLUBE PLUS 10 [118805]
 Machine Id
INGERSOLL RAND EE1739U99057 - DMAX LTD (S/N EE1739U93057)
 Component
Compressor

Sample Rating Trend

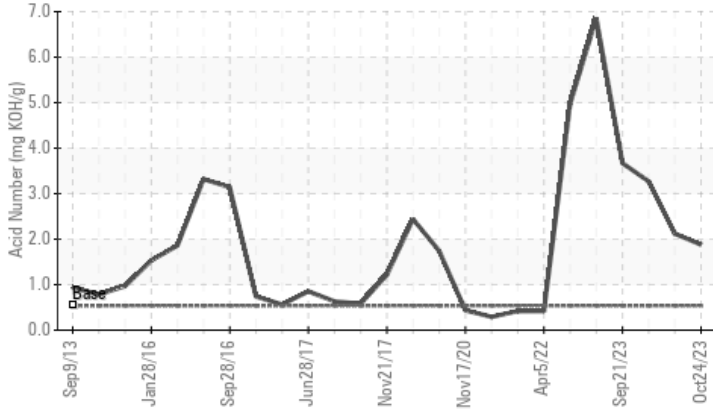


DEGRADATION



COMPONENT CONDITION SUMMARY

▲ Acid Number



RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	ATTENTION	SEVERE
Acid Number (AN)	mg KOH/g ASTM D8045 0.537	▲ 1.88	▲ 2.12	● 3.27

Customer Id: UCAIRSID
 Sample No.: UCH05995809
 Lab Number: 05995809
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.

HISTORICAL DIAGNOSIS

06 Oct 2023 Diag: Jonathan Hester

DEGRADATION



Oil and filter change at the time of sampling has been noted. 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 at the top-end of the recommended limit.

view report



05 Oct 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



21 Sep 2023 Diag: Don Baldrige

WEAR



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. The iron level is severe. The copper level is abnormal. There is no indication of any contamination in the oil. The AN level is above the recommended limit. The oil is no longer serviceable.

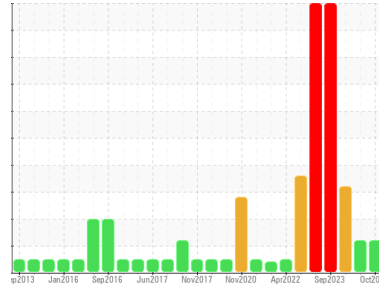
view report





OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area
CHEMLUBE PLUS 10 [118805]
 Machine Id
INGERSOLL RAND EE1739U99057 - DMAX LTD (S/N EE1739U93057)
 Component
Compressor

DIAGNOSIS

▲ Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		UCH05995809	UCH05977214	UCH05977215
Sample Date	Client Info		24 Oct 2023	06 Oct 2023	05 Oct 2023
Machine Age	hrs	Client Info	91549	91097	91096
Oil Age	hrs	Client Info	0	0	1000
Oil Changed	Client Info		Not Changed	Changed	Not Changed
Sample Status			ATTENTION	ATTENTION	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	0	0	0
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	0	0
Lead	ppm	ASTM D5185m >25	0	0	0
Copper	ppm	ASTM D5185m >50	2	<1	2
Tin	ppm	ASTM D5185m >15	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 0.1	0	0	0
Barium	ppm	ASTM D5185m 0.8	0	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m 0.9	0	0	0
Magnesium	ppm	ASTM D5185m 0	0	<1	<1
Calcium	ppm	ASTM D5185m 0	<1	2	3
Phosphorus	ppm	ASTM D5185m 409	231	315	196
Zinc	ppm	ASTM D5185m 0	10	0	0
Sulfur	ppm	ASTM D5185m 1290	349	596	287

CONTAMINANTS

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

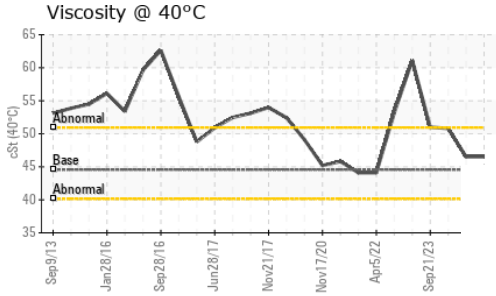
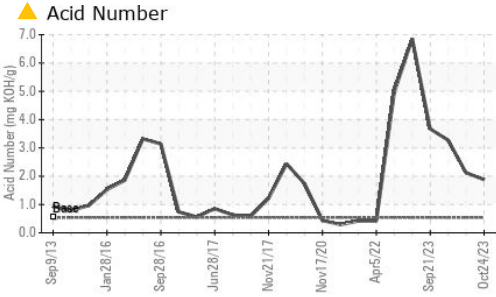
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.537	▲ 1.88	▲ 2.12	● 3.27

VISUAL

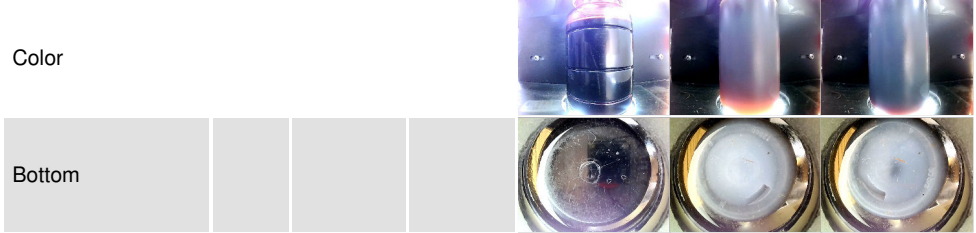
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	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
Free Water	scalar	*Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

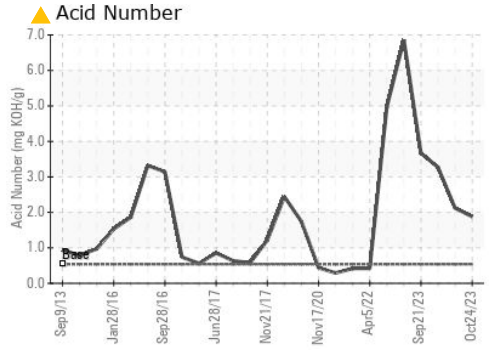
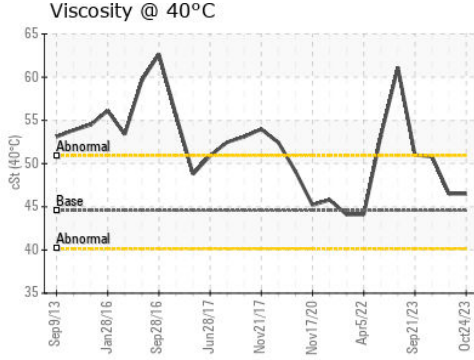
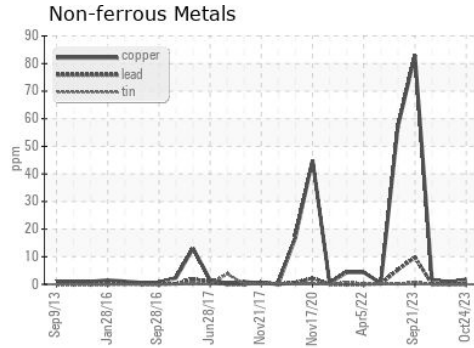
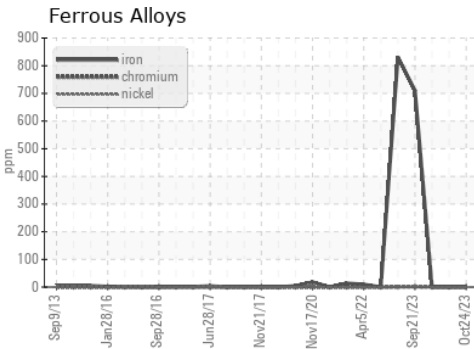


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	44.56	46.5	46.5	50.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH05995809 **Received** : 01 Nov 2023
Lab Number : **05995809** **Diagnosed** : 06 Nov 2023
Unique Number : 10724169 **Diagnostician** : Jonathan Hester
Test Package : IND 2

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 SIDNEY, OH
 US 45365
 Contact: CRISTI CURL
 cristi@aequip.net
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 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)