



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**DUC [8615]**  
 Machine Id  
**INGERSOLL RAND CK7214U06152 - UNION PACIFIC RAILROAD**  
 Component  
**Compressor**  
 Fluid  
**ULTRACHEM ULTRACHEM COOLANT PE (6 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06103118	UCH05377694	---
Sample Date		Client Info		20 Feb 2024	06 Oct 2021	---
Machine Age	hrs	Client Info		63161	59060	---
Oil Age	hrs	Client Info		932	11479	---
Filter Age	hrs	Client Info		932	11479	---
Oil Changed		Client Info		Changed	Not Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	SEVERE	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	3	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m		0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	0	0	---
Lead	ppm	ASTM D5185m	>25	<1	<1	---
Copper	ppm	ASTM D5185m	>50	0	1	---
Tin	ppm	ASTM D5185m	>15	1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

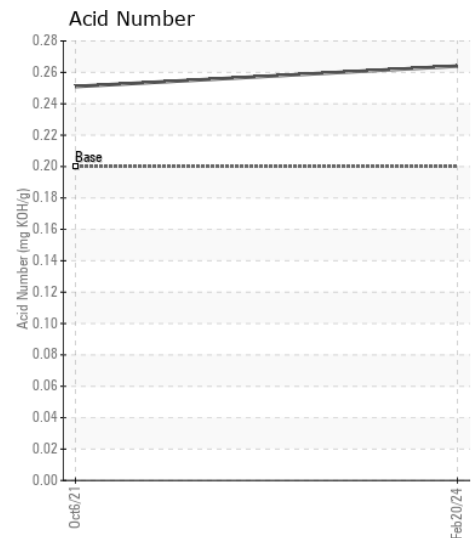
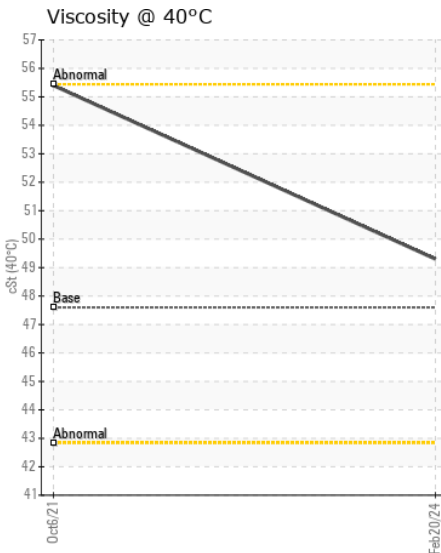
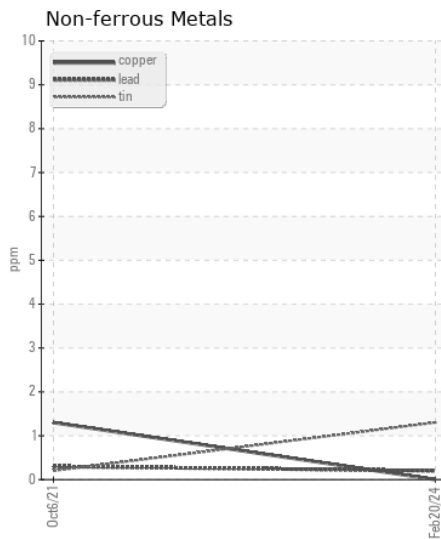
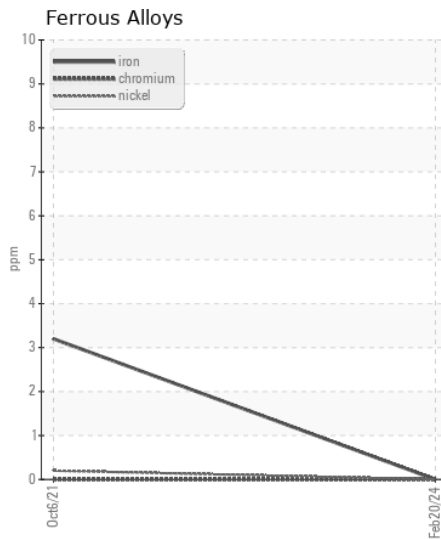
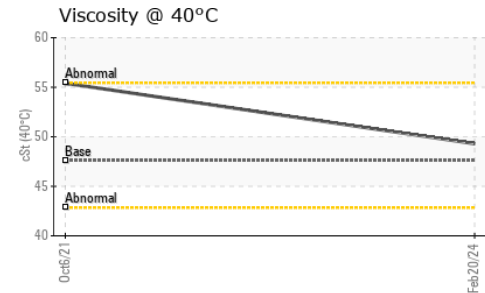
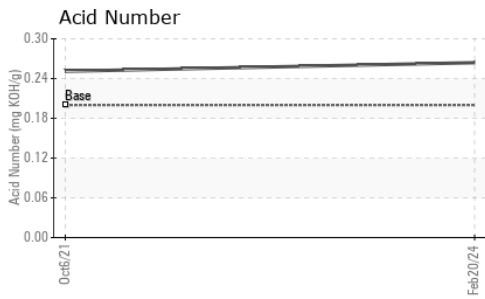
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	<1	---
Potassium	ppm	ASTM D5185m	>20	2	3	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
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	▲ 0.2%	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		15	21	---
Boron	ppm	ASTM D5185m	0	0	17	---
Barium	ppm	ASTM D5185m	700	570	293	---
Molybdenum	ppm	ASTM D5185m	0	0	0	---
Manganese	ppm	ASTM D5185m	0	0	<1	---
Magnesium	ppm	ASTM D5185m	0	1	1	---
Calcium	ppm	ASTM D5185m	0	2	8	---
Phosphorus	ppm	ASTM D5185m	0	5	4	---
Zinc	ppm	ASTM D5185m	0	<1	0	---
Sulfur	ppm	ASTM D5185m	630	699	38	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.200	0.264	0.251	---
Visc @ 40°C	cSt	ASTM D445	47.6	49.3	55.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06103118  
**Lab Number** : 06103118  
**Unique Number** : 10901348  
**Test Package** : IND 2

**Received** : 28 Feb 2024  
**Tested** : 29 Feb 2024  
**Diagnosed** : 01 Mar 2024 - Don Baldrige

**DELTA INDUSTRIES - DOWNERS GROVE**  
 2201 CURTISS STREET  
 DOWNERS GROVE, IL  
 US 60515  
 Contact: MICHAEL FERRIS

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)

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