



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**ULTRA COOLANT**  
Machine Id  
**VL1112U13051 - CANADIAN PACIFIC RAILROAD**  
Component  
**Compressor**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		UCH06075972	UCH05983761	UCH05836807
Sample Date		Client Info		25 Jan 2024	28 Sep 2023	04 Apr 2023
Machine Age	hrs	Client Info		52571	49731	45539
Oil Age	hrs	Client Info		2900	0	4000
Filter Age	hrs	Client Info		2900	0	2000
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	0
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

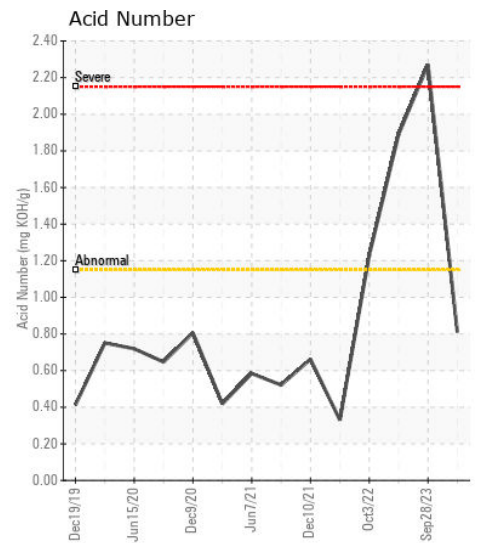
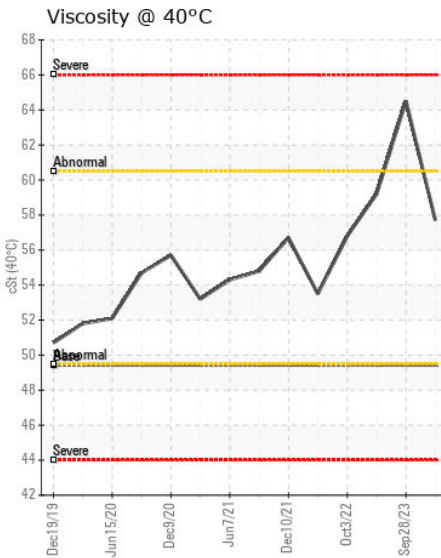
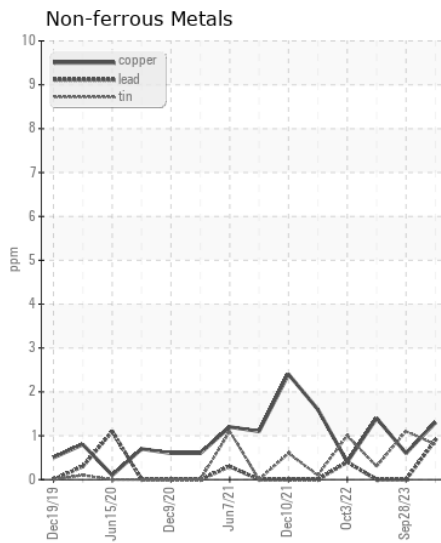
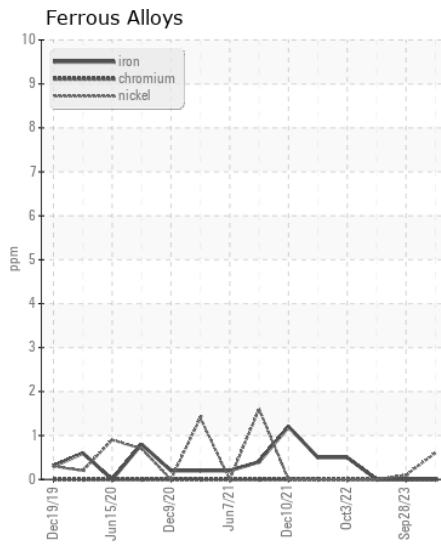
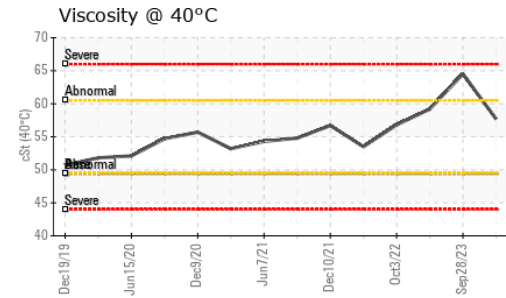
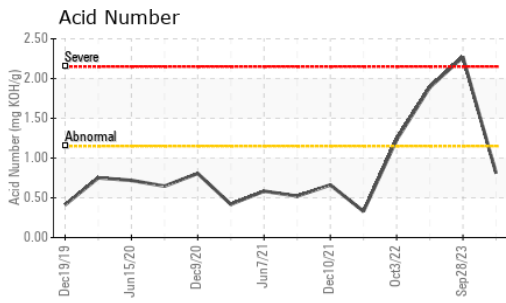
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	1	1	<1
Potassium	ppm	ASTM D5185m	>20	8	13	9
Water		WC Method	>0.1	NEG	NEG	NEG
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	0.2%	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		62	104	101
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	500	576	121	306
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	2	0	2
Calcium	ppm	ASTM D5185m	0	5	0	4
Phosphorus	ppm	ASTM D5185m	20	3	2	3
Zinc	ppm	ASTM D5185m	0	4	0	8
Sulfur	ppm	ASTM D5185m	200	350	398	387
Acid Number (AN)	mg KOH/g	ASTM D8045		0.81	▲ 2.27	▲ 1.89
Visc @ 40°C	cSt	ASTM D445	49.4	57.7	▲ 64.5	59.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06075972 **Received** : 31 Jan 2024  
**Lab Number** : 06075972 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858063 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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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