



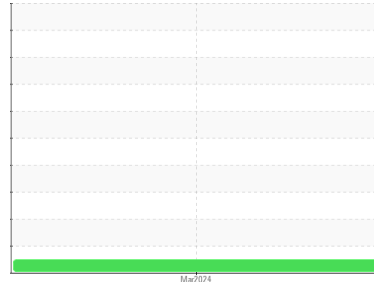
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**19 Bathurst Ch#1 Circ 1 [GTT224-352]**  
 Machine Id  
**MCQUAY STNU190200247(1)**  
 Component  
**Chiller**  
 Fluid  
**ICI EMKARATE RL 46H (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GTT0001899</b>	---	---
Sample Date	Client Info		<b>22 Mar 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed		Client Info	<b>N/A</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>2</b>	---	---
Chromium	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m) >100	<b>7</b>	---	---
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Calcium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1900	<b>488</b>	---	---
Zinc	ppm	ASTM D5185(m) 0	<b>11</b>	---	---
Sulfur	ppm	ASTM D5185(m) 25	<b>41</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>28</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	---	---
ppm Water	ppm	ASTM D6304* >400	<b>303</b>	---	---

## FLUID DEGRADATION

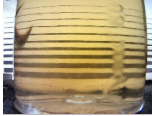

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.03	<b>0.03</b>	---	---

# OIL ANALYSIS REPORT

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.8	<b>34.1</b>	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Sample No.** : GTT0001899  
**Lab Number** : 02625897  
**Unique Number** : 5759029  
**Test Package** : IND 2 ( Additional Tests: KV40 )  
**Received** : 01 Apr 2024  
**Tested** : 04 Apr 2024  
**Diagnosed** : 04 Apr 2024 - Bill Quesnel  
*To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.*  
*Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*  
*Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.*

**Neelands Group Ltd**  
 4131 Palladium Way  
 Burlington, ON  
 CA L7M 0V9  
 Contact: Service Manager  
 ap@neelands.com  
 T: (905)975-0794  
 F: