

Area

**Fwd Machinery Space**

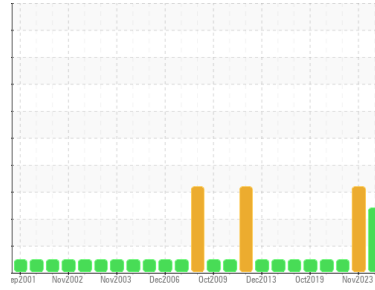
Machine Id  
**Emergency Air Compressor - Compressor Oil (S/N Sample Tag KB-63207-S2)**

Component

**Compressor**

Fluid

**COMPRO 100 (1 LTR)**



**DIAGNOSIS**

**Recommendation**

Confirm the source of the lubricant being utilized for top-up/fill. 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**

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. 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>PC</b>	PC	PC
Sample Date	Client Info	<b>27 Nov 2023</b>	24 Nov 2023	27 Sep 2021
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL

**WEAR METALS**

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	<b>0</b>	---	0	
Iron	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	6	1
Chromium	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185(m) >65	<b>19</b>	<1	<1
Copper	ppm	ASTM D5185(m) >65	<b>4</b>	<1	<1
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

**ADDITIVES**

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m) 0	<b>▲ 82</b>	<1	5
Phosphorus	ppm	ASTM D5185(m) 50	<b>▲ 144</b>	15	13
Zinc	ppm	ASTM D5185(m) 0	<b>▲ 72</b>	1	2
Sulfur	ppm	ASTM D5185(m) 1500	<b>▲ 2133</b>	2946	2847
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

**CONTAMINANTS**

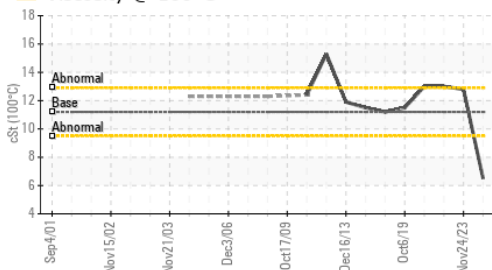
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >35	<b>1</b>	0	<1
Sodium	ppm	ASTM D5185(m)	<b>2</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304* >0.1	<b>0.004</b>	---	---
ppm Water	ppm	ASTM D6304* >1000	<b>42</b>	---	---

**FLUID DEGRADATION**

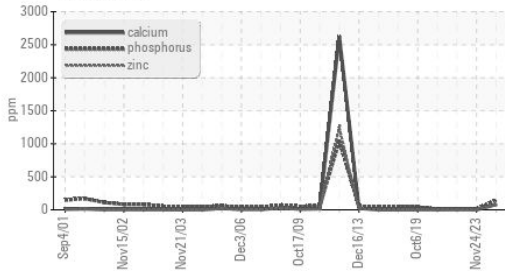
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974* 0.3	<b>0.19</b>	0.08	0.11

# OIL ANALYSIS REPORT

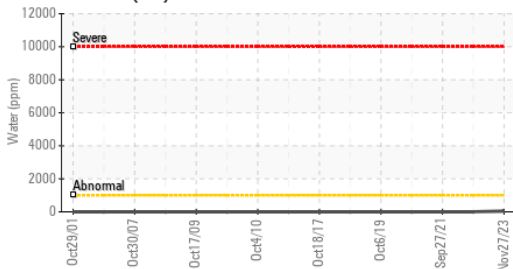
## ▲ Viscosity @ 100°C



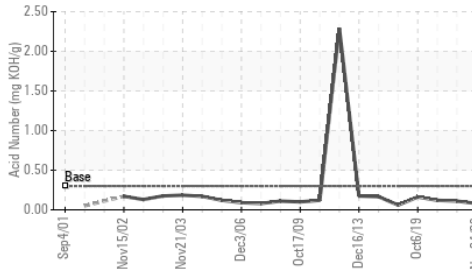
## ▲ Additives



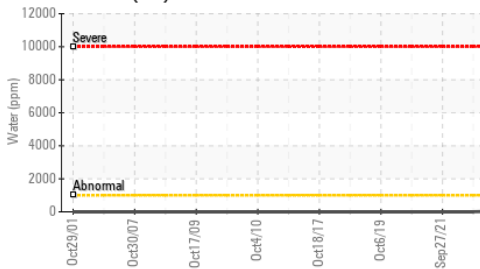
## Water (KF)



## Acid Number



## Water (KF)



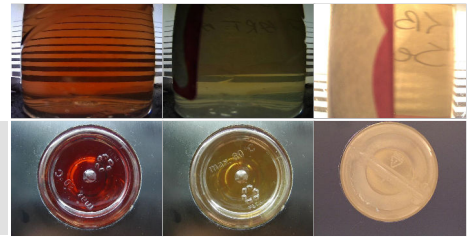
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	101.0 ▲ 34.7	93.2	93.0
Visc @ 100°C	cSt	ASTM D7279(m)	11.2 ▲ 6.5	12.8	13.0
Viscosity Index (VI)	Scale	ASTM D2270*	97	134	137

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

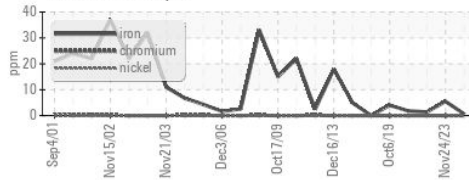
## Color

## Bottom

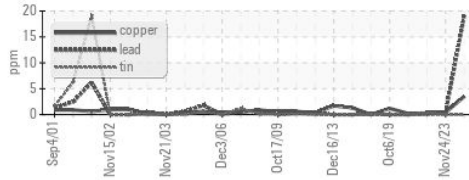


## GRAPHS

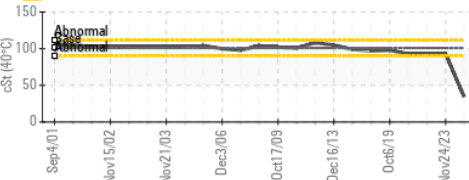
### Ferrous Alloys



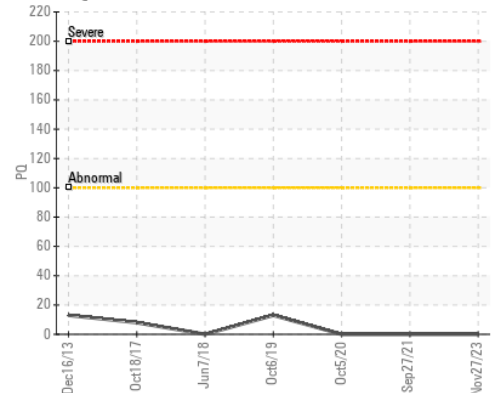
### Non-ferrous Metals



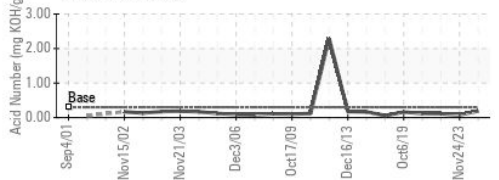
### ▲ Viscosity @ 40°C



### PQ



### Acid Number



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : 02605562  
**Unique Number** : 5698647  
**Test Package** : MAR 2 ( Additional Tests: KF, KV100, TAN Man, VI )  
**Received** : 28 Dec 2023  
**Diagnosed** : 04 Jan 2024  
**Diagnostician** : Kevin Marson

**Suncor - Terra Nova Projects**  
 Scotia Centre, 235 Water Street  
 St. John's, NL  
 CA A1C 1B6  
 Contact: Josh Hynes  
 joshhynes@suncor.com  
 T: (709)778-3575  
 F: (709)724-2835

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.