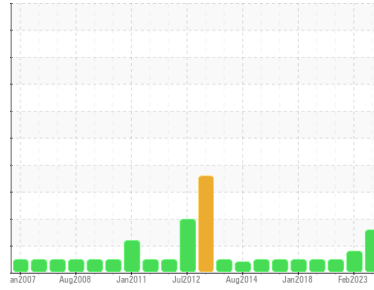


Area  
**1622**  
Machine Id  
**1622-5433-6002 - CONCENTRATE STORAGE AIR COMPRESSOR**  
Component  
**Air Compressor**  
Fluid  
**INGERSOLL-RAND SSR ULTRA COOLANT (20 LTR)**



**DIAGNOSIS**

**Recommendation**  
We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

**Wear**  
All component wear rates are normal.

**Contamination**  
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

**Fluid Condition**  
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0077262</b>	PC0040343	PC0022883
Sample Date	Client Info	<b>09 Feb 2024</b>	24 Feb 2023	10 Feb 2021
Machine Age	days	<b>0</b>	0	0
Oil Age	days	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Chngd</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ATTENTION	NORMAL

**WEAR METALS**

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	0
Iron	ppm ASTM D5185(m) >50	<b>0</b>	<1	<1
Chromium	ppm ASTM D5185(m) >4	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >4	<b>&lt;1</b>	0	<1
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) >10	<b>&lt;1</b>	0	<1
Lead	ppm ASTM D5185(m) >20	<b>0</b>	0	<1
Copper	ppm ASTM D5185(m) >40	<b>&lt;1</b>	0	<1
Tin	ppm ASTM D5185(m) >5	<b>0</b>	0	0
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>	<1	<1
Barium	ppm ASTM D5185(m) 500	<b>1032</b>	1041	931
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>2</b>	<1	2
Phosphorus	ppm ASTM D5185(m) 20	<b>0</b>	0	<1
Zinc	ppm ASTM D5185(m) 0	<b>1</b>	2	1
Sulfur	ppm ASTM D5185(m) 200	<b>268</b>	311	303
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

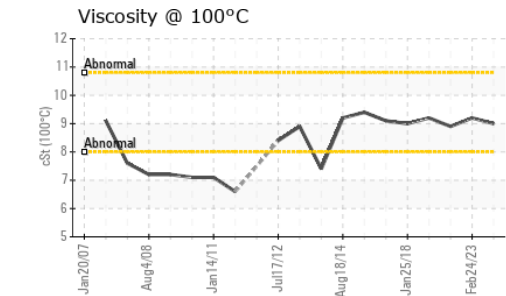
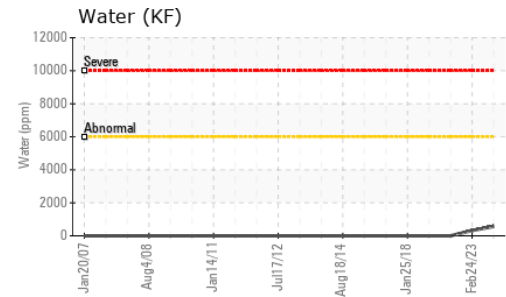
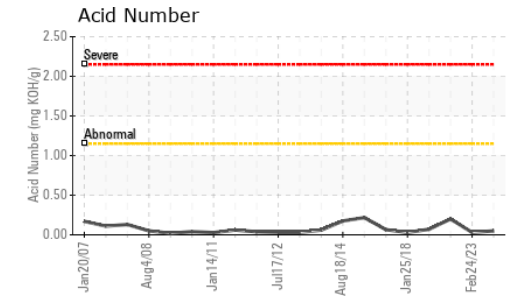
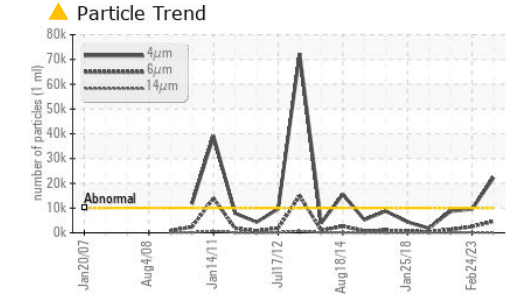
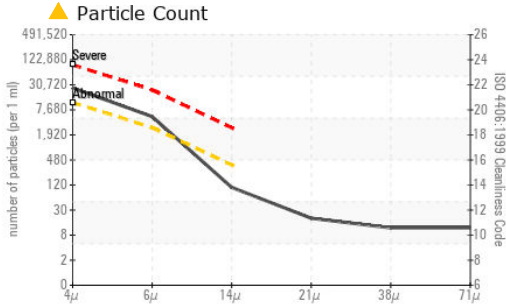
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>6</b>	<1	2
Sodium	ppm ASTM D5185(m)	<b>1</b>	4	4
Potassium	ppm ASTM D5185(m) >20	<b>1</b>	0	<1
Water	% ASTM D6304* >0.6	<b>0.056</b>	0.032	---
ppm Water	ppm ASTM D6304* >6000	<b>567</b>	323.5	---

**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 22349</b>	9547	8669
Particles >6µm	ASTM D7647 >2500	<b>▲ 4614</b>	▲ 2507	1287
Particles >14µm	ASTM D7647 >320	<b>93</b>	141	43
Particles >21µm	ASTM D7647 >80	<b>17</b>	24	8
Particles >38µm	ASTM D7647 >20	<b>10</b>	1	0
Particles >71µm	ASTM D7647 >4	<b>▲ 10</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>▲ 22/19/14</b>	▲ 20/19/14	20/17/13

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0077262  
**Lab Number** : **02615975**  
**Unique Number** : 5733085  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PQ, PrtCount, TAN Man, VI )

**Vale - Voisey's Bay**  
 Voisey's Bay Mine Site, P.O. Box 7001, Str. C Happy Valley  
 Goose Bay, NL  
 CA A0P 1C0  
 Contact: Robert Feltham  
 robert.feltham@vale.com

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.

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.05</b>	0.03	0.20

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.6	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	49.4	<b>49.9</b>	51.2	50.1
Visc @ 100°C	cSt	ASTM D7279(m)		<b>9</b>	9.2	8.9
Viscosity Index (VI)	Scale	ASTM D2270*	161	<b>162</b>	163	158

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

