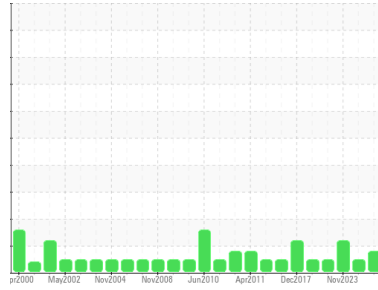


Area
Fwd Machinery Space [450292038]
Machine Id
Compressor No. 2 - Start Up Air Crank Case (S/N Sample Tag KB-63205B)
Component
Air Compressor
Fluid
COMPRO 100 (4 LTR)



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**
Viscosity of sample indicates oil is within ISO 32 range, advise investigate. 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	PC	PC0076278	PC
Sample Date	Client Info	20 Mar 2024	05 Dec 2023	28 Nov 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	14	0
Iron	ppm ASTM D5185(m) >50	<1	24	<1
Chromium	ppm ASTM D5185(m) >4	0	0	0
Nickel	ppm ASTM D5185(m) >4	0	<1	<1
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m)	0	0	0
Aluminum	ppm ASTM D5185(m) >10	0	2	<1
Lead	ppm ASTM D5185(m) >20	0	0	<1
Copper	ppm ASTM D5185(m) >40	<1	<1	<1
Tin	ppm ASTM D5185(m) >5	0	0	0
Antimony	ppm ASTM D5185(m)	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	0	0	0
Barium	ppm ASTM D5185(m) 0	0	0	0
Molybdenum	ppm ASTM D5185(m) 0	0	0	0
Manganese	ppm ASTM D5185(m)	0	0	0
Magnesium	ppm ASTM D5185(m) 0	<1	0	<1
Calcium	ppm ASTM D5185(m) 0	0	<1	0
Phosphorus	ppm ASTM D5185(m) 50	33	28	34
Zinc	ppm ASTM D5185(m) 0	1	1	1
Sulfur	ppm ASTM D5185(m) 1500	629	2786	669
Lithium	ppm ASTM D5185(m)	<1	<1	<1

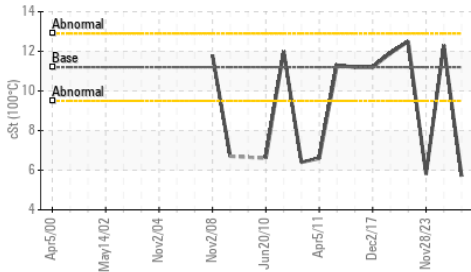
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	0	<1	0
Sodium	ppm ASTM D5185(m)	<1	0	0
Potassium	ppm ASTM D5185(m) >20	<1	<1	0
Water	% ASTM D6304* >0.6	0.001	0.002	0.002
ppm Water	ppm ASTM D6304* >6000	13	25	22

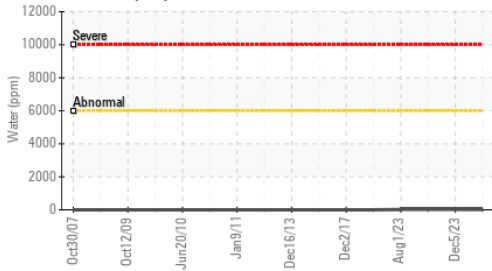
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.3	0.05	0.11	0.05

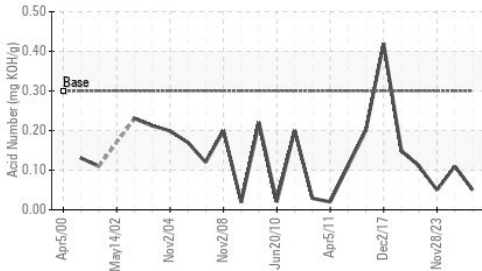
▲ Viscosity @ 100°C



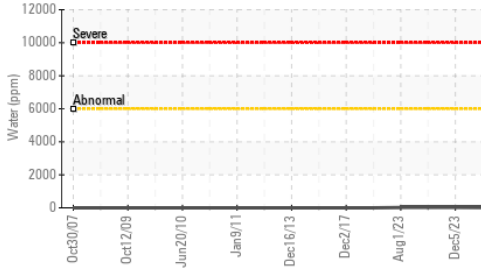
Water (KF)



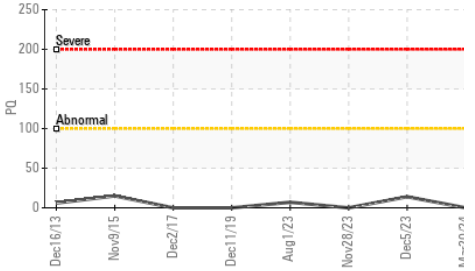
Acid Number



Water (KF)



PQ



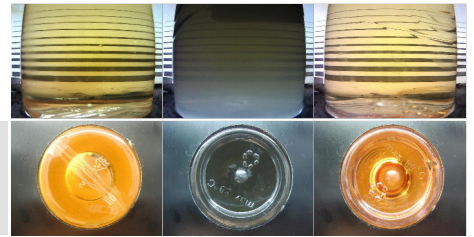
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.6	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 ▲ 34.1	93.4	▲ 30.6
Visc @ 100°C	cSt	ASTM D7279(m)	11.2 ▲ 5.7	12.3	▲ 5.8
Viscosity Index (VI)	Scale	ASTM D2270*	97	106	125

SAMPLE IMAGES

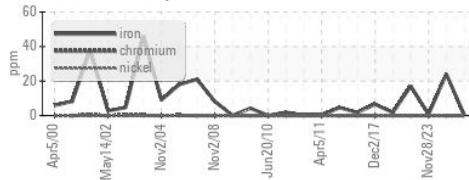
Color

Bottom

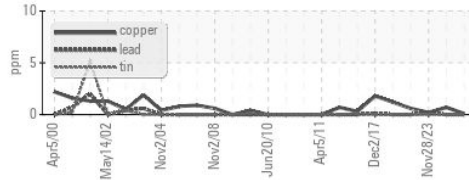


GRAPHS

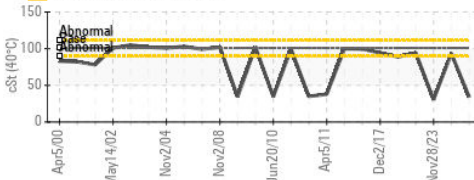
Ferrous Alloys



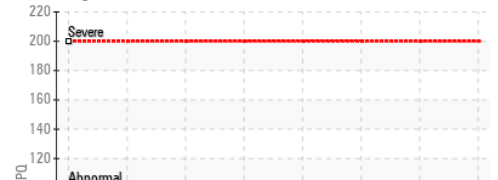
Non-ferrous Metals



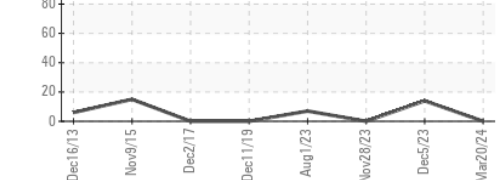
▲ Viscosity @ 40°C



PQ



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02626084
Unique Number : 5759216
Test Package : MAR 2 (Additional Tests: KF, KV100, TAN Man, VI)
Received : 02 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 03 Apr 2024 - 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.