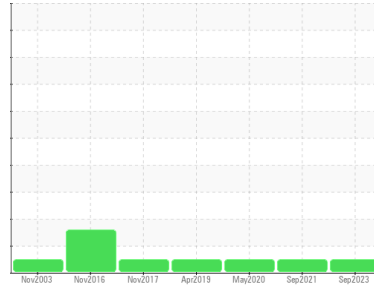


Area  
**Fwd Machinery Space [450204323]**  
Machine Id  
**Generator - SKSG Turbocharger A - Compressor Side (S/N Sample Tag CD-86201-S3)**  
Component  
**Oil**  
Fluid  
**NOT GIVEN (1 LTR)**



**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**

All component wear rates are normal.

**Contamination**

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

**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>PC</b>	PC	PC
Sample Date	Client Info	<b>12 Sep 2023</b>	27 Sep 2021	18 May 2020
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	<b>&lt;1</b>	4	0
Chromium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
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)	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)	<b>0</b>	2	<1
Phosphorus	ppm	ASTM D5185(m)	<b>801</b>	822	731
Zinc	ppm	ASTM D5185(m)	<b>&lt;1</b>	2	<1
Sulfur	ppm	ASTM D5185(m)	<b>456</b>	476	418
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	<b>1</b>	18	0
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1

**FLUID CLEANLINESS** method limit/base current history1 history2

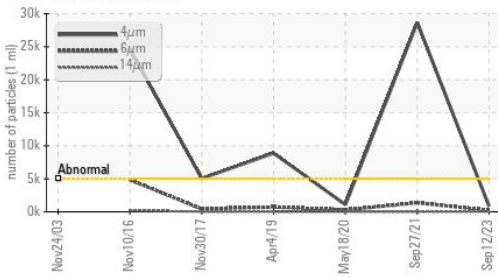
Particles >4µm	ASTM D7647	>5000	<b>852</b>	28665	1071
Particles >6µm	ASTM D7647	>1300	<b>226</b>	1358	286
Particles >14µm	ASTM D7647	>160	<b>33</b>	17	21
Particles >21µm	ASTM D7647	>40	<b>15</b>	2	7
Particles >38µm	ASTM D7647	>10	<b>2</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/15/12</b>	22/18/11	17/15/12

**FLUID DEGRADATION** method limit/base current history1 history2

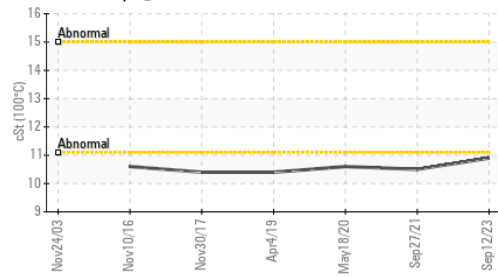
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.03</b>	0.04	0.05
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# OIL ANALYSIS REPORT

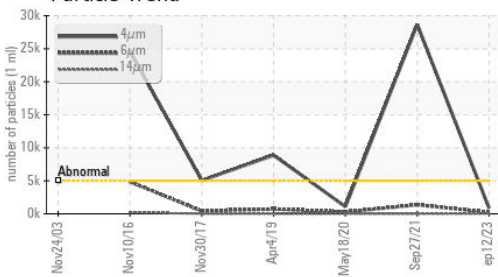
Particle Trend



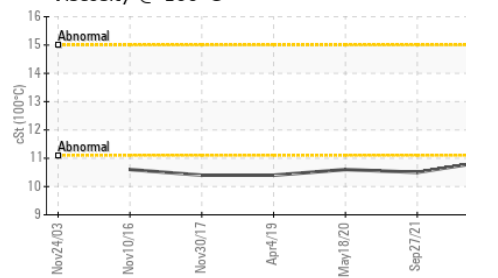
Viscosity @ 100°C



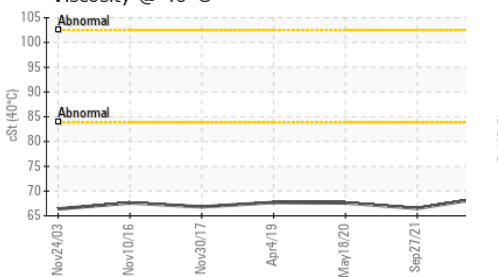
Particle Trend



Viscosity @ 100°C



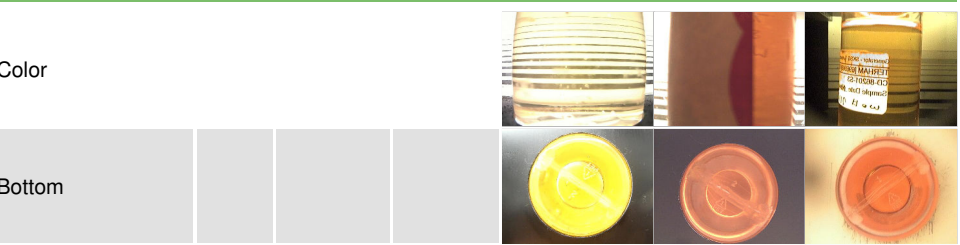
Viscosity @ 40°C



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*	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

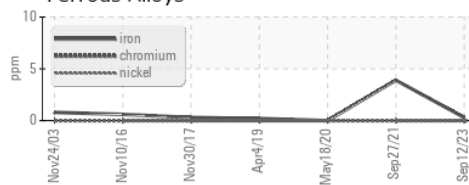
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68.8	66.5	67.6
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	10.5	10.6
Viscosity Index (VI)	Scale	ASTM D2270*	148	146	145

SAMPLE IMAGES

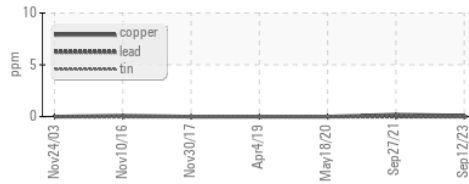


## GRAPHS

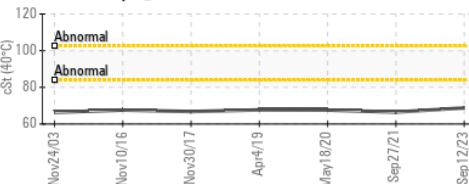
Ferrous Alloys



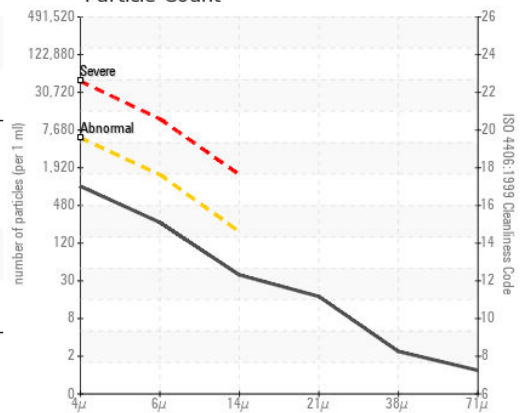
Non-ferrous Metals



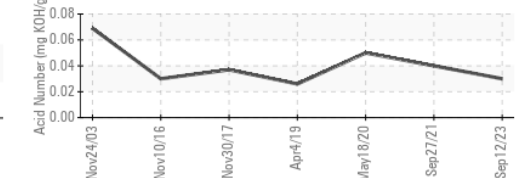
Viscosity @ 40°C



Particle Count



Acid Number



**Laboratory Sample No. :** WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Lab Number :** PC  
**Unique Number :** 02584981  
**Test Package :** 5646046  
**Received :** 25 Sep 2023  
**Diagnosed :** 26 Sep 2023  
**Diagnostician :** Bill Quesnel  
**Test Package :** MAR 2 ( Additional Tests: KV100, PrtCount, TAN Man, VI )

**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.