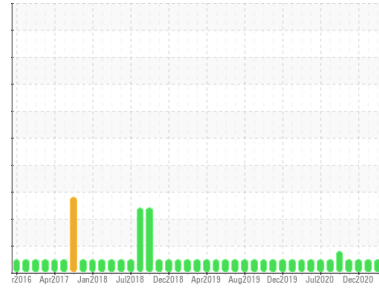


# COOLANT REPORT

Sample Rating Trend



**NORMAL**



Area

**Fwd Machinery Space [71136596]**

Machine Id

**Generator - PKSG Lube Oil Cooling Water (S/N Sample Tag CD-86101-S7)**

Component

**Cooling Water**

Fluid

**MAXIGARD DIESEL ENG.WATER TREATMENT (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the cooling water.

### Fluid Condition

The condition of the cooling water is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0040409</b>	PC0036557	PC
Sample Date	Client Info	<b>23 Sep 2021</b>	15 Jan 2021	18 Dec 2020
Machine Age	days	<b>0</b>	0	0
Oil Age	days	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >100	<b>NEG</b>	NEG	NEG

## PHYSICAL TEST RESULTS

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	1.100	<b>1.000</b>	1.000	1.000	
pH	Scale 0-14	ASTM D1287*	9.8	<b>9.97</b>	10.2	9.88
Nitrites	ppm	Alcan Test Kit*	500	<b>1200</b>	1000	680
Reserve Alkalinity	Scale 0-20	ASTM D1121*	7.4	<b>15.3</b>	12.4	12.7
Percentage Glycol	%	ASTM D3321*	0	<b>1.0</b>	1.0	1.0
Freezing Point	°C	ASTM D3321*	0	<b>-0</b>	-1	-0
Carboxylate			<b>---</b>	---	---	

## CORROSION INHIBITORS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	80	<b>99</b>	50	104
Phosphorus	ppm	ASTM D5185(m)	0	<b>4</b>	24	24
Boron	ppm	ASTM D5185(m)	600	<b>1061</b>	905	905
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	2	2

## CORROSION

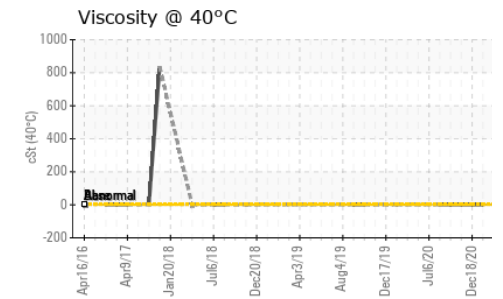
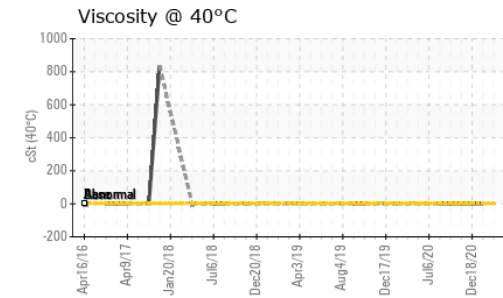
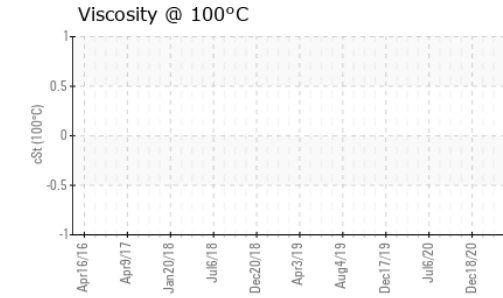
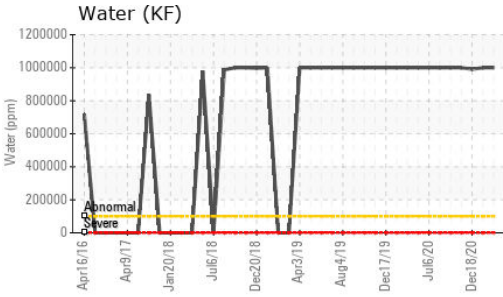
method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	4
Aluminum	ppm	ASTM D5185(m)		<b>2</b>	<1	<1
Copper	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)		<b>1</b>	2	3
Tin	ppm	ASTM D5185(m)		<b>2</b>	1	<1
Silver	ppm	ASTM D5185(m)		<b>2</b>	<1	<1
Zinc	ppm	ASTM D5185(m)		<b>1</b>	1	3

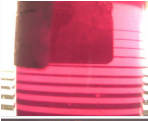

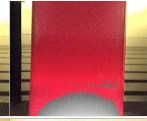



## CARRIER SALTS

method	limit/base	current	history1	history2		
Sodium	ppm	ASTM D5185(m)	2300	<b>2497</b>	3295	3065
Potassium	ppm	ASTM D5185(m)	20	<b>10</b>	46	20

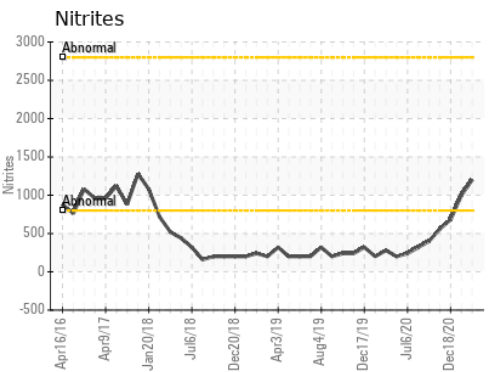
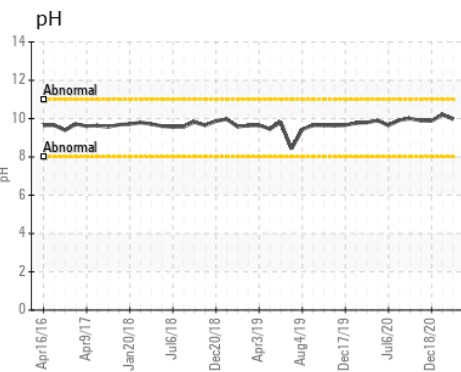
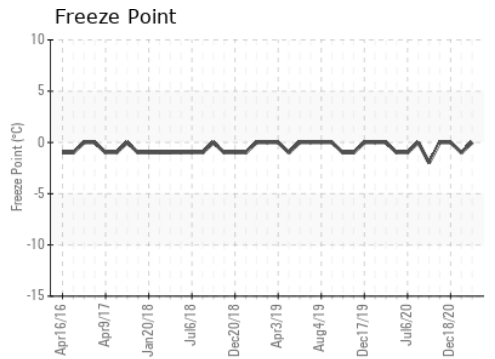
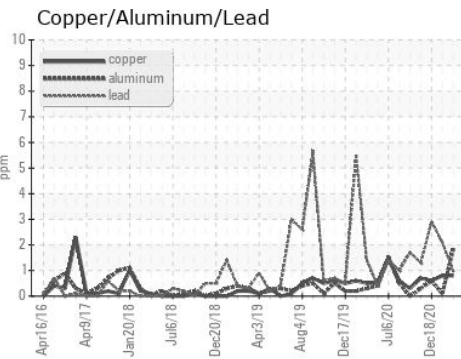
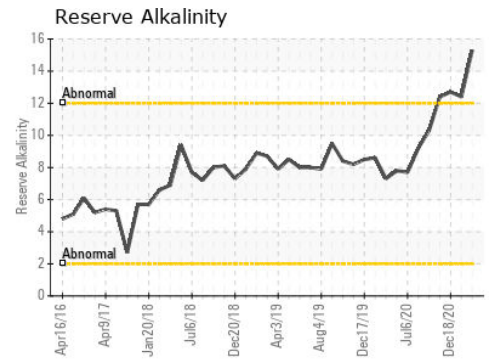
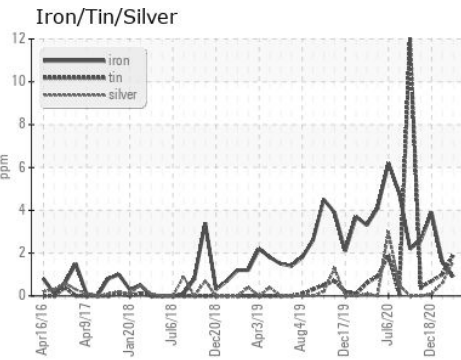
## SCALE POTENTIAL

method	limit/base	current	history1	history2		
Calcium	ppm	ASTM D5185(m)		<b>8</b>	6	10
Magnesium	ppm	ASTM D5185(m)		<b>1</b>	1	2



VISUAL	method	limit/base	current	history1	history2
Coolant Color	Visual*	Pink	<b>Pink</b>	Pink	Pink
Coolant Appearance	Visual*	Clear	<b>Clear</b>	Clear	Clear
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0040409 **Received** : 06 Oct 2021  
**Lab Number** : **02448750** **Tested** : 12 Oct 2021  
**Unique Number** : 5292285 **Diagnosed** : 12 Oct 2021 - Kevin Marson  
**Test Package** : COOL ( Additional Tests: Cool, ICP, KF, KV100, KV40, Spat, Visual )

**Suncor - Terra Nova Projects**  
 Scotia Centre, 235 Water Street  
 St. John's, NL  
 CA A1C 1B6  
 Contact: Josh Hynes  
 joshynes@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.