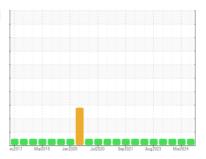


## **COOLANT REPORT**

# Cranes

Crane - Fwd Engine Coolant (12 L Tank) (S/N Sample Tag: MA-04003)
Coolant

**EXTENDED LIFE COOLANT (12 LTR)** 



Sample Rating Trend



### DIAGNOSIS

#### Recommendation

The fluid is suitable for further service. Resample at the next service interval to monitor.

#### Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

#### **Contaminants**

There is no indication of any contamination in the coolant.

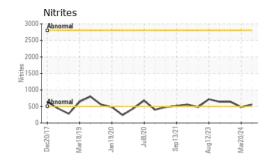
#### **Coolant Condition**

The nitrite level is acceptable. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

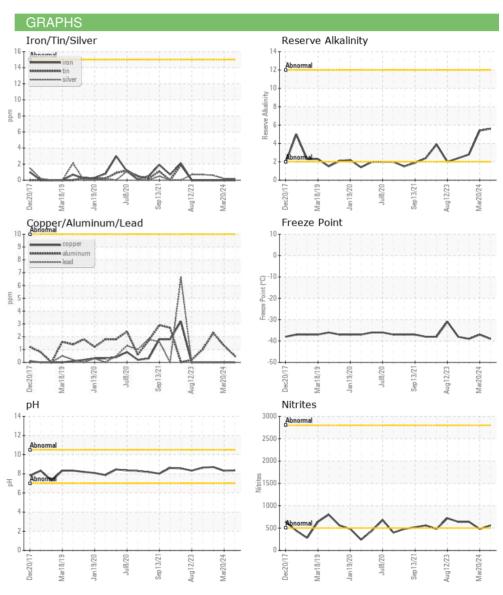
Sample Date			ec2017 M	ar2019 Jan2020 Ji	ul2020 Sep2021 Aug2023	Mar2024	
Sample Date	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS method         Imition         NIMITION         NIMITION         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS         method         Imition         UNK	Sample Number		Client Info		PC	PC	PC0081066
Dil Age	Sample Date		Client Info		16 May 2024	20 Mar 2024	24 Jan 2024
Oil Changed   Client Info   N/A   N/A   N/A   N/A   N/A   NORMAL	Machine Age	hrs	Client Info		0	0	0
NORMAL   NORMAL   NORMAL   NORMAL	Oil Age	hrs	Client Info		0	0	0
PHYSICAL TEST RESULTS   method   limit/base   current   history1   history2	Oil Changed		Client Info		N/A	N/A	N/A
Correction   Cor	Sample Status				NORMAL	NORMAL	NORMAL
Specific Gravity	PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Ph	Glycol Type		FT-IR		UNK	UNK	
Nitrites	Specific Gravity		ASTM D1298*		1.069	1.068	1.069
Reserve Alkalinity	рН	Scale 0-14	ASTM D1287*	9.0	8.35	8.30	8.71
Percentage Glycol   %   ASTM D3321*   50   51.5   50.5   51.6	Nitrites	ppm	Alcan Test Kit*		560	480	640
Freezing Point	Reserve Alkalinity	Scale 0-20	ASTM D1121*		5.6	5.4	2.8
Carboxylate	Percentage Glycol	%	ASTM D3321*	50	51.5	50.5	51.6
CORROSION INHIBITORS   method   limit/base   current   history1   history2	Freezing Point	°C	ASTM D3321*	-40	-39	-37	-39
Silicon	Carboxylate						
Phosphorus         ppm         ASTM D5185(m)         103         6         18           Boron         ppm         ASTM D5185(m)         27         15         19           Molybdenum         ppm         ASTM D5185(m)         183         179         181           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >15         0         0         0           Aluminum         ppm         ASTM D5185(m)         >10         <1         1         2           Copper         ppm         ASTM D5185(m)         >10         0         0         0           Lead         ppm         ASTM D5185(m)         >10         0         0         0           Tin         ppm         ASTM D5185(m)         >10         0         0         0           Silver         ppm         ASTM D5185(m)         >10         <1         <1         <1           Zinc         ppm         ASTM D5185(m)         53333         4781         6308           Potassium         ppm         ASTM D5185(m)         4834         4699         8461 <td< th=""><th>CORROSION INH</th><th>IIBITORS</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	CORROSION INH	IIBITORS	method	limit/base	current	history1	history2
Boron	Silicon	ppm	ASTM D5185(m)		8	3	8
Molybdenum         ppm         ASTM D5185(m)         183         179         181           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >15         0         0         0           Aluminum         ppm         ASTM D5185(m)         >10         <1         1         2           Copper         ppm         ASTM D5185(m)         >10         0         0         0           Lead         ppm         ASTM D5185(m)         >10         0         0         0           Tin         ppm         ASTM D5185(m)         >10         0         0         0           Silver         ppm         ASTM D5185(m)         >10         <1         <1         <1           Zinc         ppm         ASTM D5185(m)         1         3         1         1           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185(m)         5333         4781         6308           Potassium         ppm         ASTM D5185(m)         >100         5         10	Phosphorus	ppm	ASTM D5185(m)		103	6	18
CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >15         0         0         0           Aluminum         ppm         ASTM D5185(m)         >10         <1         1         2           Copper         ppm         ASTM D5185(m)         >10         0         0         0           Lead         ppm         ASTM D5185(m)         >10         0         0         0           Tin         ppm         ASTM D5185(m)         >10         0         0         0           Silver         ppm         ASTM D5185(m)         >10         <1         <1         <1           Zinc         ppm         ASTM D5185(m)         1         3         1         1           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185(m)         5333         4781         6308           Potassium         ppm         ASTM D5185(m)         >10         9           Magnesium         ppm         ASTM D5185(m)         >100         5         10         9 <th>Boron</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th></th> <th>27</th> <th>15</th> <th>19</th>	Boron	ppm	ASTM D5185(m)		27	15	19
Iron         ppm         ASTM D5185(m)         >15         0         0         0           Aluminum         ppm         ASTM D5185(m)         >10         <1	Molybdenum	ppm	ASTM D5185(m)		183	179	181
Aluminum         ppm         ASTM D5185(m)         >10         <1	CORROSION		method	limit/base	current	history1	history2
Copper         ppm         ASTM D5185(m)         >10         0         0         0           Lead         ppm         ASTM D5185(m)         >10         0         0         0           Tin         ppm         ASTM D5185(m)         >10         0         0         0           Silver         ppm         ASTM D5185(m)         >10         <1         <1         <1           Zinc         ppm         ASTM D5185(m)         1         3         1           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185(m)         5333         4781         6308           Potassium         ppm         ASTM D5185(m)         4834         4699         8461           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D5185(m)         >100         5         10         9           Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	Iron	ppm	ASTM D5185(m)	>15	0	0	0
Lead         ppm         ASTM D5185(m)         >10         0         0         0           Tin         ppm         ASTM D5185(m)         >10         0         0         0           Silver         ppm         ASTM D5185(m)         >10         <1         <1         <1           Zinc         ppm         ASTM D5185(m)         1         3         1           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185(m)         5333         4781         6308           Potassium         ppm         ASTM D5185(m)         4834         4699         8461           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D5185(m)         >100         9           Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	Aluminum	ppm	ASTM D5185(m)	>10	<1	1	2
Tin         ppm         ASTM D5185(m)         >10         0         0         0           Silver         ppm         ASTM D5185(m)         >10         <1	Copper	ppm	ASTM D5185(m)	>10	0	0	0
Silver         ppm         ASTM D5185(m)         >10         <1	Lead	ppm	ASTM D5185(m)	>10	0	0	0
Zinc         ppm         ASTM D5185(m)         1         3         1           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185(m)         5333         4781         6308           Potassium         ppm         ASTM D5185(m)         4834         4699         8461           SCALE POTENTIAL method limit/base current         history1         history2           Calcium         ppm         ASTM D5185(m)         >100         5         10         9           Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	Tin	ppm	ASTM D5185(m)	>10	0	0	0
CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185(m)         5333         4781         6308           Potassium         ppm         ASTM D5185(m)         4834         4699         8461           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D5185(m)         >100         5         10         9           Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	Silver	ppm	ASTM D5185(m)	>10	<1	<1	<1
Sodium         ppm         ASTM D5185(m)         5333         4781         6308           Potassium         ppm         ASTM D5185(m)         4834         4699         8461           SCALE POTENTIAL method limit/base current history1         history2           Calcium         ppm         ASTM D5185(m)         >100         5         10         9           Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	Zinc	ppm	ASTM D5185(m)		1	3	1
Potassium         ppm         ASTM D5185(m)         4834         4699         8461           SCALE POTENTIAL method limit/base current history1         history2           Calcium ppm         ASTM D5185(m)         >100         5         10         9           Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	CARRIER SAL	.TS	method	limit/base	current	history1	history2
SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D5185(m)         >100         5         10         9           Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	Sodium	ppm	ASTM D5185(m)		5333	4781	6308
Calcium         ppm         ASTM D5185(m)         >100         5         10         9           Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	Potassium		ASTM D5185(m)		4834	4699	8461
Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	SCALE POTE	NTIAL	method	limit/base	current	history1	history2
Magnesium         ppm         ASTM D5185(m)         >40         5         5         4	Calcium	ppm	ASTM D5185(m)	>100	5	10	9
	Magnesium		. ,	>40	5	5	4
	Hardness		( /		30	46	37



## **COOLANT REPORT**



VISUAL	method	limit/base	current	history1	history2
Coolant Color	Visual*	Orange/R	Red	Red	Orange
Coolant Appearance	Visual*	Clear	Clear	Clear	Clear
Color					
Bottom			OS ROLL		





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Laboratory

Lab Number : 02638970 Unique Number : 5788132

: PC

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received : 30 May 2024 **Tested** Diagnosed

: 30 May 2024 : 31 May 2024 - Kevin Marson

Test Package : COOL ( Additional Tests: GlycolType ) 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.

**Suncor - Terra Nova Projects** 

Scotia Centre, 235 Water Strret St. John's, NL

CA A1C 1B6 Contact: Josh Hynes joshynes@suncor.com

T: (709)778-3575 F: (709)724-2835