

COOLANT REPORT

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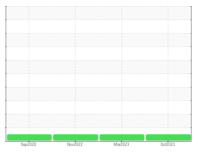
NORMAL



KANSAS/44/EG - EXCAVATOR Machine Id 20.17W [KANSAS^44^EG - EXCAVATOR] Component

Coolant

CAT EXTENDED LIFE COOLANT (ELC) (--- GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

The fluid is suitable for further service.

Corrosion

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

Contaminants

There is no indication of any contamination in the coolant.

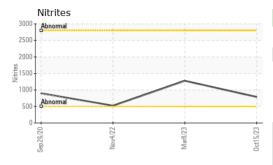
Coolant Condition

Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

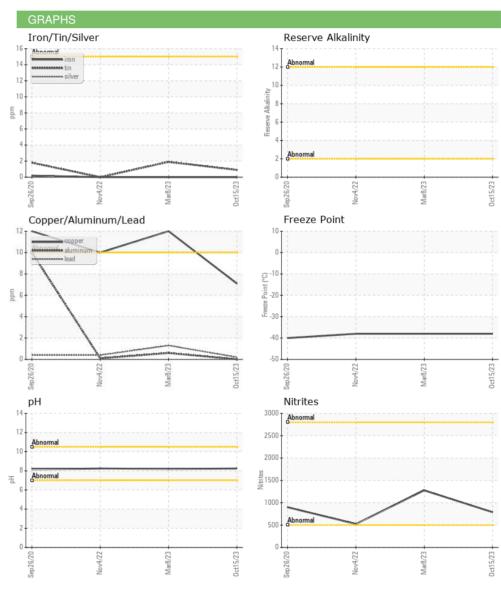
Sample Number Client Info WC0862537 WC0665225 WC0665261 Sample Date Client Info 15 Oct 2023 08 Mar 2023 04 Nov 2022 Machine Age hrs Client Info 5336 5330 5155	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 5336 5330 5155 Oil Age hrs Client Info 5336 5330 5155 Oil Changed Client Info Not Changd Not Ball 26 28 106 26 26 26 26 26 26 26 26 26 26 26 26 26 26 <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>WC0862537</th> <th>WC0665225</th> <th>WC0665261</th>	Sample Number		Client Info		WC0862537	WC0665225	WC0665261
Oil Age hrs Client Info 5336 5330 5155 Oil Changed Sample Status Client Info Not Changd NORMAL Not Ch	Sample Date		Client Info		15 Oct 2023	08 Mar 2023	04 Nov 2022
Oil Changed Sample Status Client Info Not Changd NORMAL Not State No. 10.00 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.06	Machine Age	hrs	Client Info		5336	5330	5155
Sample Status	Oil Age	hrs	Client Info		5336	5330	5155
PHYSICAL TEST RESULTS	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Specific Gravity	Sample Status				NORMAL	NORMAL	NORMAL
pH Scale 0-14 ASTM D1287 8.24 8.19 8.24 Nitrites ppm AP-053:2009 788 1276 524 Reserve Alkalinity Scale 0-20 "ASTM D1121" Percentage Glycol % ASTM D3321 51.0 51.1 51.6 Freezing Point "F ASTM D3321 -38 -38 -38 Total Dissolved Solids 493.5 403.0 453.5 453.5 Carboxylate fail pass pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 352 786 630 Boron ppm ASTM D6130 0 0 17 3 Molybdenum ppm ASTM D6130 950 806 1200 1200 CORROSION method limit/base current history1 history2 Iron ppm AST	PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity		*ASTM D1298		1.069	1.069	1.069
Reserve Alkalinity Scale 0.20	pН	Scale 0-14	ASTM D1287		8.24	8.19	8.24
Percentage Glycol %	Nitrites	ppm	AP-053:2009		788	1276	524
Freezing Point	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids	Percentage Glycol	%	ASTM D3321		51.0	51.1	51.6
Carboxylate fail pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 13 53 33 Phosphorus ppm ASTM D6130 0 352 786 630 Boron ppm ASTM D6130 0 0 17 3 Molybdenum ppm ASTM D6130 950 806 1200 1200 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 7 12 10 Lead ppm ASTM D6130 >10 7 12 10 Lead ppm ASTM D6130 >10 <1 2 0 Zinc ppm ASTM D6130 6 13 12 CONTAM	Freezing Point	°F	ASTM D3321		-38	-38	-38
CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 13 53 33 Phosphorus ppm ASTM D6130 0 352 786 630 Boron ppm ASTM D6130 0 0 17 3 Molybdenum ppm ASTM D6130 950 806 1200 1200 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 0 <1 <1 Copper ppm ASTM D6130 >10 7 12 10 Lead ppm ASTM D6130 >10 <1 1 <1 Zinc ppm ASTM D6130 >10 <1 2 0 Zinc ppm ASTM D6130 13 43 <t< th=""><th>Total Dissolved Solids</th><th></th><th></th><th></th><th>493.5</th><th>403.0</th><th>453.5</th></t<>	Total Dissolved Solids				493.5	403.0	453.5
Silicon ppm ASTM D6130 0 13 53 33 Phosphorus ppm ASTM D6130 0 352 786 630 Boron ppm ASTM D6130 0 0 17 3 Molybdenum ppm ASTM D6130 950 806 1200 1200 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 0 <1 <1 Copper ppm ASTM D6130 >10 7 12 10 Lead ppm ASTM D6130 >10 <1 2 0 Zinc ppm ASTM D6130 >10 <1 2 0 Zinc ppm ASTM D6130 13 43 18 CARRIER SALTS method limit/base current history1 history2 <th>Carboxylate</th> <th></th> <th></th> <th></th> <th>fail</th> <th>pass</th> <th>pass</th>	Carboxylate				fail	pass	pass
Phosphorus ppm ASTM D6130 0 352 786 630 Boron ppm ASTM D6130 0 0 17 3 Molybdenum ppm ASTM D6130 950 806 1200 1200 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 0 <1 <1 Copper ppm ASTM D6130 >10 7 12 10 Lead ppm ASTM D6130 >10 <1 1 <1 Tin ppm ASTM D6130 >10 <1 2 0 Zinc ppm ASTM D6130 6 13 12 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 3799 6114 5099	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron ppm ASTM D6130 0 0 17 3 Molybdenum ppm ASTM D6130 950 806 1200 1200	Silicon	ppm	ASTM D6130	0	13	53	33
Molybdenum ppm ASTM D6130 950 806 1200 1200 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 0 <1 <1 Copper ppm ASTM D6130 >10 7 12 10 Lead ppm ASTM D6130 >10 <1 1 <1 Tin ppm ASTM D6130 >10 <1 2 0 Zinc ppm ASTM D6130 6 13 12 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 3799 6114 5099 Sodium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 <th>Phosphorus</th> <th>ppm</th> <th>ASTM D6130</th> <th>0</th> <th>352</th> <th>786</th> <th>630</th>	Phosphorus	ppm	ASTM D6130	0	352	786	630
CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 0 <1 <1 Copper ppm ASTM D6130 >10 7 12 10 Lead ppm ASTM D6130 >10 <1 1 <1 Tin ppm ASTM D6130 >10 <1 2 0 Zinc ppm ASTM D6130 6 13 12 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 3799 6114 5099 Sodium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 2 <1	Boron	ppm	ASTM D6130	0	0	17	3
Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 0 <1	Molybdenum	ppm	ASTM D6130	950	806	1200	1200
Aluminum ppm ASTM D6130 >10 0 <1	CORROSION		method	limit/base	current	history1	history2
Copper ppm ASTM D6130 >10 7 12 10 Lead ppm ASTM D6130 >10 <1 1 <1 Tin ppm ASTM D6130 >10 <1 2 0 Zinc ppm ASTM D6130 6 13 12 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 13 43 18 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3799 6114 5099 Potassium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 2 <1	Iron	ppm	ASTM D6130	>15	0	0	0
Lead ppm ASTM D6130 >10 <1	Aluminum	ppm	ASTM D6130	>10	0	<1	<1
Tin ppm ASTM D6130 billion >10 cm <1 cm	Copper	ppm	ASTM D6130	>10	7	12	10
Zinc ppm ASTM D6130 6 13 12 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 13 43 18 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3799 6114 5099 Potassium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1	Lead	ppm	ASTM D6130	>10	<1	1	<1
CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 13 43 18 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3799 6114 5099 Potassium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 2 <1	Tin	ppm	ASTM D6130	>10	<1	2	0
Chlorine ppm ASTM D6130 13 43 18 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3799 6114 5099 Potassium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 2 <1	Zinc	ppm	ASTM D6130		6	13	12
CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3799 6114 5099 Potassium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 2 <1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium ppm ASTM D6130 3799 6114 5099 Potassium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1	Chlorine	ppm	ASTM D6130		13	43	18
Potassium ppm ASTM D6130 2619 5485 3496 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 2 <1	CARRIER SALTS	;	method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 <1 2 <1	Sodium	ppm	ASTM D6130		3799	6114	5099
Calcium ppm ASTM D6130 <1	Potassium	ppm	ASTM D6130		2619	5485	3496
	SCALE POTENTI	AL	method	limit/base	current	history1	history2
	Calcium	ppm	ASTM D6130		<1	2	<1
	Magnesium	ppm	ASTM D6130		<1	1	0



COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	Red	Red
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color				MAT INTERNATIONAL PROPERTY OF THE PROPERTY OF	
Bottom					





Laboratory Sample No. Lab Number

: 05994868 Unique Number : 10723228

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0862537 Received : 31 Oct 2023 Diagnosed : 03 Nov 2023

Diagnostician : Jonathan Hester

Test Package : COOL- (Additional Tests: COOL, ICP) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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