FOCUSLAB™

ISO9001:2015

CUSTOMER

Code :
Name :
Address :

Site :
Location :
Test Code : CO835

EQUIPMENT

Unit ID : **BC Coolant Before**

Unit Type : COOLANT
Unit Make : CATERPILLAR
Unit Model : G3516 NA

COOLANT

Coolant Brand/Type : CATERPILLAR NGEC PREMIX

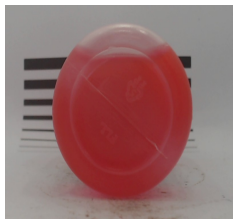
Coolant System Capacity 600 Liters

WARNING
CAUTION C
NORMAL

Notes (Finding, Evaluation, Interpretation, Suggestion and Recommendation)

Foaming volume is normal while breaking time of foam is more stable than normal(takes longer to break).
Both the pH and Reserve Alkalinity are in ACCEPTABLE levels.
All the other parameter are in normal range.

No action require at this time. Continue to use this coolant.
Resample in next 250-500 hours or at your next schedule maintenance interval whichever come first.



Jirot P. /Somchai J.

Condition History	Test Method	Result	Current Sample		Previous Sample		Baseline and Alarm Limit		
			Rust	Coolant	Cont.	Rust	Coolant	Cont.	Rust	Coolant	Cont.	BASELINE	Alarm Limit	
			N	C	N	N	N	N	N	N	N			
Lab ID			24112553			24070109			23122079				Alarm Limit Matrix -Set Name (Equipment type / coolant type)	
Date Sampled			26-Oct-24			20-Apr-24			27-Aug-23				Coolant Caterpillar NGEC	
Coolant Hours (Kms)			4000			4000			4000					
Unit Hours (Kms)			65771			61987			57990					
Bottle ID			134567			101696			101614			The New Coolant (TNC)		
Rust and Corrosion Metalic Element													U-Caution	U-Warning
Iron	D-7751	ppm	0			0			0			0	>10	>15
Copper	D-7751	ppm	0.5			0.2			0.3			0	>4	>5
Aluminum	D-7751	ppm	0			0			0			0	>4	>5
Lead	D-7751	ppm	0			0			0			0	>25	>35

Coolant Condition											TNC	L-Warning	L-Caution	U-Caution	U-Warning
Color	Visual		Red			Red			Pink						
Appearance	Visual		Clear			Clear			Clear		Clear				
Specific Gravity	D-4052		1.0710			1.0715			1.0742		1.1				
Glycol	Refractometer	%	47.8			48			49.8		49.2	<30	<40	>60	>65
Boiling Point	In-house	°C	107			107			107.2		107				
pH	D-1287		8.55			8.87			9.59		9.6	<8	<8.5	>10.5	>11
Reserve Alkalinity	D-1121	ml	2.6			4.0			4.4		4.4	<1.5	<2		
Nitrite	Test kit	ppm	2000			2000			1000		1500	<750	<900	>2100	>4500
Foaming Tendency															
• Foaming Volume	D-4921	ml	5			0			1		0			>300	>350
• Foam Breaking Time	D-4921	second	1880.3		W	0			3.7		0			>20	>30

Coolant Contamination											TNC	U-Caution	U-Warning
Odor	Visual		Normal			Normal			Normal		Normal		
Solids	Visual		None			None			None		None		
Fuel/Lube	Visual		Negative			Negative			Negative		Negative		
Water Hardness	Test kit	ppm	6			3			9		9.0		
Conductivity	In-house	µs	2540			3150			2550		6760		
Sulfates	Test kit	ppm	100.0			40.0			50.0		400	>800	>1000
Chloride	Test kit	ppm	10.0			10.0			50.0		50	>100	>110

Additional Test											TNC	U-Caution	U-Warning

Note: Alarm Limits are variable and dependent upon dataset size and to be used as general guideline.
No Sign or N : NORMAL , C or C : CAUTION (first level warning limit) , W or W : Warning (second level warning limit)
Accuracy of interpretation and recommendation are based on representatives sample and information supplied.
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