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Method for Field Determination of the Daily Lime Content

1. Scope:

This test covers the determination of the daily lime content for an asphalt hot mix plant.

2. Apparatus:

None

3. Procedure:

- 3.1 Record the weight of lime in the tank at the start of the day. (A)
- 3.2 Calculate the weight of lime added to the tank by taking the summation of all truckloads of lime received for the day. (B)
- 3.3 Record the weight of lime in the tank at the end of the day. (C)
- 3.4 Record the weight of asphalt hot mix produced for the day. (E)

Note: All weights to the nearest 0.01 ton

4. Report:

4.1 Calculate the weight of lime used for the day (**D**) to the nearest 0.01 ton.

$$\mathbf{D} = \mathbf{A} + \mathbf{B} - \mathbf{C}$$

4.2 Calculate the daily percent of lime in the mix (**F**) to the nearest 0.01 percent.

$$F = \left(\frac{D}{E}\right) X \; \mathbf{100}$$

A = Weight of lime in tank at start of day.

B = Weight of lime added to tank.

C = Weight of lime in tank at end of day.

D = Weight of lime used.

E = Weight of mix produced.

F = Percent of lime in mix.

4.3 Report the daily lime content on the DOT-33Q form to the nearest 0.01 percent.

5. References:

DOT-33Q

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Sample ID 2245374 File No.	LIME CO	NTENT DET	ERMIN	IATION -	ASPHALT (CONCRETE		DOT-33Q 9-14
Report No. 14								
County Aurora, Zieba	ch		PCN/PR	OJECT	B015			
Test Date <u>05/03/2016</u>	Inspector Te	ster, One		Contractor	Roads, Inc			
Percent Lime Desired	0.90 -	1.10	_					
Hydrated Lime Type								
I	ANK METHOD							
Α.	Weight of Lime i	n Tank at Start	(Tons)		20.55			
	Tons at Star	(at start of proj	ject only)					
В.	Weight of Lime	Added to Tank	(Tons)		68.87			
C.	Weight of Lime i	n Tank at End	(Tons)		38.71			
	Left in Storag	je (at end of pr	oject only	y)				
D.	Weight of Lime	Jsed (A + B - C) (Tons)		50.71			
E.	Weight of Mix Pr	oduced (Tons))		4833.21			
F.	Percent of Lime	in Mix (D / E x 1	100)		1.05			
B. Load#	Invoice #	Tons			Summer	of Mix Produced	ı	Lime
07	75373	33.63		_	Danimary			Lille

В.	Load #	Invoice #	Tons
	07	75373	33.63
	08	75955	35.24

Summa	Lime		
To Road	4827.21	Tons	50.65
Plant Waste	5.00	Tons	0.05
Road Waste	1.00	Tons	0.01
To Others		Tons	
Produced	4833.21	Tons	

REMARKS