

EVALUATION OF IceCOLD® PERFORMANCE IN A 48' REEFER TRAILER

Location: United Intermodal Services, Port of Oakland, CA

Equipment: Thermo King SB-210 + Smart Power with R-404A refrigerant

Protocol:  
 To establish a baseline diesel usage before IceCOLD installation. Temp Set point at 0 F  
 Actions Taken

DAY	DATE	UNIT ON/OFF	°F REEFER	DOOR	OUTSIDE °F @ 3 PM	°F RANGE	
DAY 1	5/11						
		8:00 AM ON	56.8	CLOSED	64	47-68	
		12:00 PM OFF		3 OPEN			
		12:20 PM ON		36 CLOSED			
		2:00 PM OFF		2.4 OPEN			
		2:20 PM ON	39.4	CLOSED			
		4:00 PM OFF		2 CLOSED			
DAY 2	5/12						
		8:00 AM ON	47.6	CLOSED	65	51-69	TOTAL DIESEL USED DURING ALL THREE DAYS = 11.070 GALS
		12:00 PM OFF		2.1 OPEN			
		12:20 PM ON	46.6	CLOSED			
		2:00 PM OFF		0.3 OPEN			
		2:20 PM ON	47.8	CLOSED			
		4:00 PM OFF		3.9 CLOSED			
DAY 3	5/13						
		8:00 AM ON	51.4	CLOSED	69	55-74	
		12:00 PM OFF		0.7 OPEN			
		12:20 PM ON	50.2	CLOSED			
		2:00 PM OFF		1.2 OPEN			
		2:20 PM ON	48.6	CLOSED			
		4:00 PM OFF		7.3 CLOSED			

DAY 4 5/21

IceCOLD Installed and Unit was left on for 24 Hours

SET POINT AT 0°F

DAY 5 5/28

UNIT ON/OFF

°F REEFER

DOOR

OUTSIDE °F @ 3:00 PM

°F RANGE

8:00 AM ON

56.6 CLOSED

69

51-70

12:00 PM OFF

5 OPEN

12:20 PM ON

48.5 CLOSED

2:00 PM OFF

8.2 OPEN

2:20 PM ON

48.8 CLOSED

4:00 PM OFF

3.3 CLOSED

DAY 6

8:00 AM ON

49.3 CLOSED

68

55-68

TOTAL DIESEL USED FOR ALL 3 DAYS = 8.951 GALS

12:00 PM OFF

3.1 OPEN

12:20 PM ON

47.9 CLOSED

2:00 PM OFF

2.2 OPEN

2:20 PM ON

48.7 CLOSED

4:00 PM OFF

4.9 CLOSED

DAY 7 5/30

8:00 AM ON

50.8 CLOSED

66

53-68

12:00 PM OFF

0.1 OPEN

12:20 PM ON

45.8 CLOSED

2:00 PM OFF

0.1 OPEN

2:20 PM ON

47.6 CLOSED

4:00 PM OFF

5.7 CLOSED

PRE ICECOLD INSTALL GALLONS

11.07

POST IceCOLD INSTALL

8.951

FUEL SAVINGS

2.119

19.14%