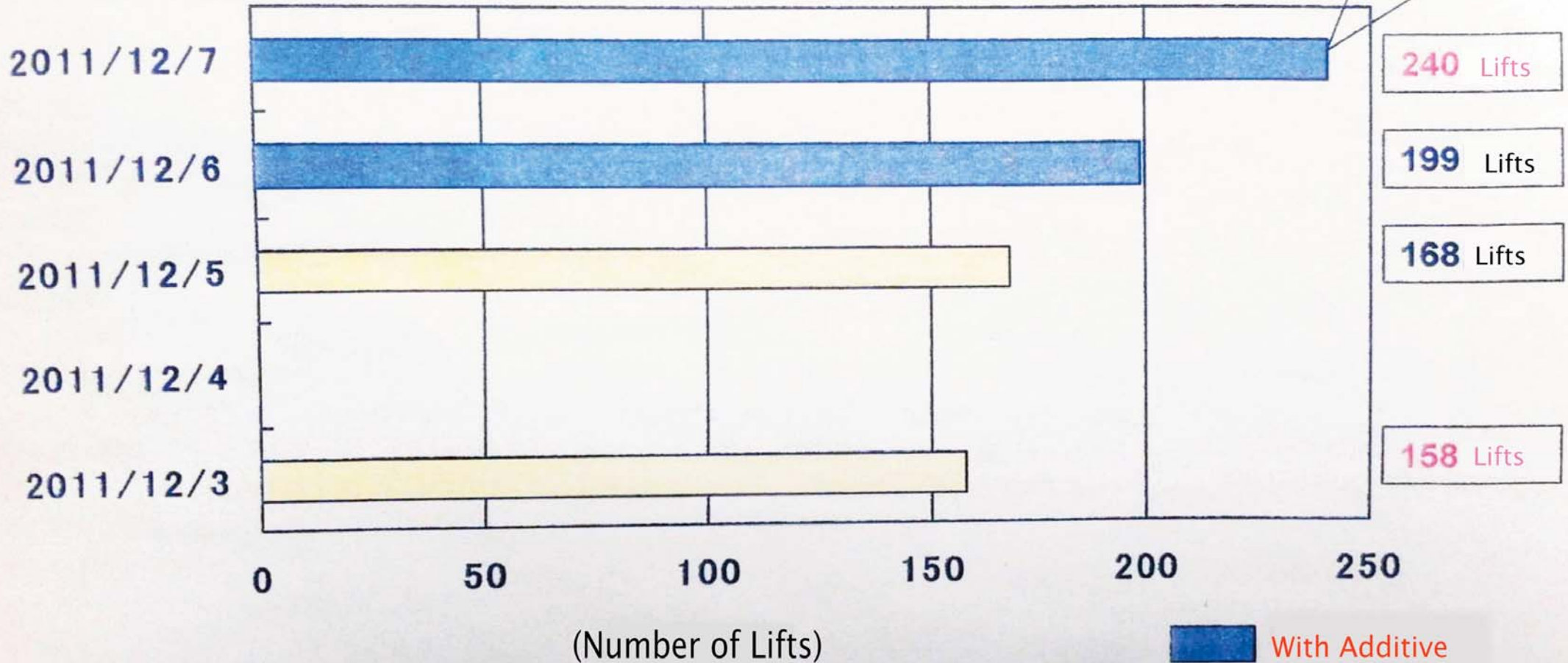


Forklift Battery Capacity Improvement Data

Yuasa 400AH Forklift battery (FML 1505)

With Battery Additive
Forklift power is increased
65%



1. Forklift battery was fully charged before tests. Forklift lift counter was set to 0 count. 40CC of Battery additive was added to each cell of forklift battery. 24 cells total. 960CC.
2. Testing commenced within a 7 day period from December 2nd, 2012, ended December 8th, 2012.
3. Pallet load consisted of (110cmx110cmx12.5cm) 20kg load X 10. Total of 200kg.
4. One lift count consists of raising the load to the maximum height until minimum height.
5. Forklift is raised and lowered until forklift is no longer capable of lifting load.

With Additive
Without Additive

Kilowatt hour consumption during refurbishing cycle

	2011/12/2(金)	2011/12/3(土)	2011/12/4(日)	2011/12/5(月)	2011/12/6(火)	2011/12/7(水)
11:00						
12:00						
13:00						
14:00						
15:00						
16:00						
17:00						
18:00						
19:00						
20:00						
21:00						
22:00						
23:00						
24:00						
1:00						
2:00						
3:00						
4:00						

Charge Time	10:07min	09:50min		08:35min	07:57min	07:39min
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Energy Saving Comparision pre/post additive KWH

12/2 energy consumption compared to 12/5 energy consumption showed a difference of 2,969kwh (15.8%)
 12/2 energy consumption compared to 12/6 energy consumption showed a difference of 3,568kwh (18.9%)
 12/2 energy consumption compared to 12/7 energy consumption showed a difference of 5,163kwh (27.5%)

12/3 energy consumption compared to 12/5 energy consumption showed a difference of 1,819kwh (10.3%)
 12/3 energy consumption compared to 12/6 energy consumption showed a difference of 2,418kwh (13.7%)
 12/3 energy consumption compared to 12/7 energy consumption showed a difference of 4,013kwh (22.8%)

	PRE ADDITIVE
	POST ADDITIVE