

# November, 2010 QUALITY MONTH

### PRODUCT QUALITY WEEK



## AAF is Focused on Quality!

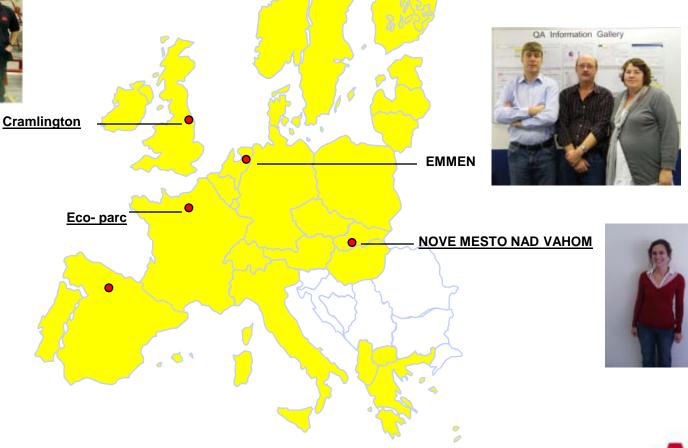


AAF is focused and determined to have excellent Product Quality.





#### Quality team of AAF International





GLOBAL LEADER IN

### Visual Management - efficiency & transparency

#### Plan Do Check Act





AAF Emmen

OVICENCE INSTRUCTIONS



AAF Slovakia





**AAF** France



### **Important in Lean is to eliminate**

D efects
O verproduction
T ransport
W aiting
I nventory
M ovement
P rocesses (over)











### **Lean Implementation**

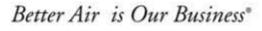


before

#### **AAF UK**









### **5S** - Sort



### Simplify



### Systematic Clean



#### Standardize

**S**ustain



# TPM – the goal is to get to scheduled maintenance

aims to achieve 4 Zeros:

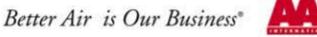
Zero Defects

Zero Breakdowns

Zero Wastes

Zero Accidents





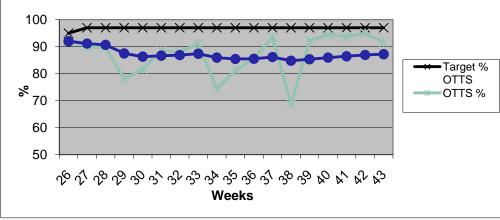
### **OEE – Overall Equipment Effectiveness**

OEEberekening FP3	3-11-2010		OEE	Operational Avai	ability X	Speed Factor		Yield
	OEE FP3 Foldin	g line	OEE	Production Ti Planned Tim	ne r	Average demonstrated machine time Theoretical machine time		Qty Good Units Total Qty units produced
	erde œllen uw eigen productiedata in per ploeg. In sommige geva voudige formules moet converteren, zoals 3.600 eenheden / uur is		OEE	92,1%	x	101,7%	×	100,0%
ift Lengte rtere pauses, het aantal op Time sale lijnsnelheid taal aantal eenheden gedankte eenheden	minuut. NUren = 430 Minuten 25 tops van 15 tops van 41 Minuten 10 PPM (eenheden per minuut) 3 713 Eenheden 265 Eenheden	30 Minuten totaal 30 Minuten totaal	C Non plante 1. Breakdo	e un tine (sel-ups, maintenance, d downtime 1+2+3 + una ned sel-ups	breaka, neetinga)	2 220 175 0	12 12 12 12 12 12 12	
plande productietijd klime edgekeurde eenheden	Banskening Shift Lengta - Breaks Geplande productietijd - Stop Time Totaal aantal eenheden - Afgedankte eenheden	420 Minuten 379 Minuten 3 448 Eenheden	E Operati	Tine: D+A+B+C+ onal Availability: D/A>	100	2045 92%	nh	
chikbaarheid statie aliteit aal OEE	Bernhening Operating Time / Geplande productietijd (Totaal aantal eenheden / Operating Time) / Ideale lijnsnefheid Goedgekeurde eenheden / Totaal eenheden Beschikbaarheid s Prestatie x Kwaliteit	Igen 00235 90.2% 98.1% 92.9% 82.2%	G Theoretical	produced parts		2772 0.75 102%	unts miniur	t
Efaithten schild aarheid statie aliteit	Master Egen Class OE OEN 90.00% 90.2% 95.00% 98.1% 99.90% 92.9%		RTY Number of	scrapped and reworked units roughput Yield [(F - 1)/	Flx100	0 100%	units	
taal OEE Aaster Class OEE voor discret	85.00% 82.2% e industrie zijn in het algemeen beschouwd als 85% of beter. Stud	ies hebben	OEE					
aangetoond dat d	le OEE vaak niet meer dan 60% in de meeste productiescenario's.	3 9	K Overall	Equipment Efficiency	= ExHxJ=	94%		



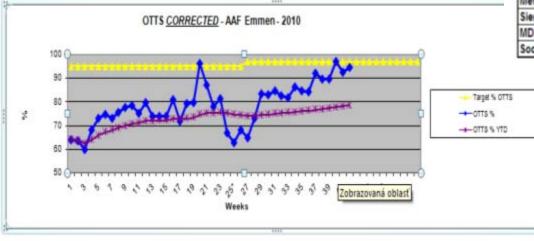
### **Normal Lead Time**

OTTS CORRECTED - AAF Slovakia- 2010



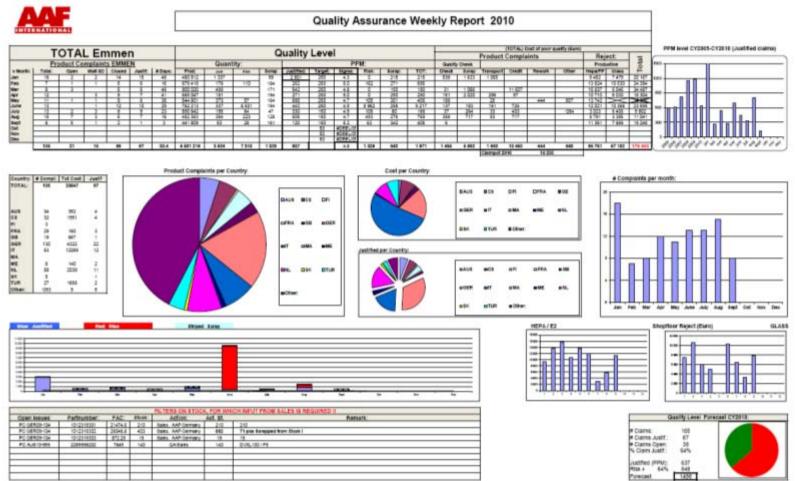
#### Air Filters Ltd - Cramlington (UK) NLT

	NLT	Actual	Last week	Comments
Dri-Paks	5 Days	8 Days	4 Days	Sickness - Over time being worked
Am-Airs	5 Days	5 Days	5 Days	
A/Glass	5 Days	5 Days	5 Days	
Pads	5 Days	8 Days	7 Days	Sickness - Over time being worked
DRF	5 Days	8 Days	5 Days	Sickness - Over time being worked
Metal Cased	5 Days	5 Days	5 Days	
Siemens DP's	10 Days	10 Days	10 Days	
MDF Cased	5 Days	5 Days	5 Days	
Socks	5 Days	8 Days	5 Days	Sickness - Over time being worked





### **Scoreboards**





### **Trade Show Slovakia**









In 2011 we will start upgrading all AAF factories to a green heart factory

### **Green Heart for Everyone**







#### **Green Heart for Everyone**



#### **GREEN HEART FACTORY**

#### **Green: environment Heart : involvement with society**

#### What does green heart factory mean:



- Make advanced efforts to create a factory which strategy and systems reduces environmental loads.
- Conduct self-evaluations and second-party evaluations in accordance with evaluation standards and clarify strengths and weaknesses.
- Issue certifications with the seal of the president.
- Certification standard.:

Super Green Heart Factory (SGHF) 95 and higher. Green Heart Factory (GHF) 85-95

#### Setting the right important step into the future

