



Recycling of aluminium from end-of-life commercial vehicles – ANNEX II

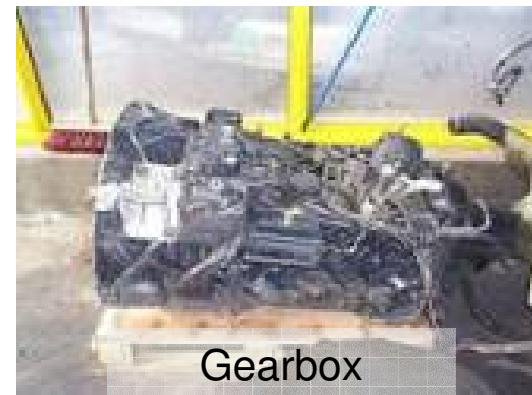
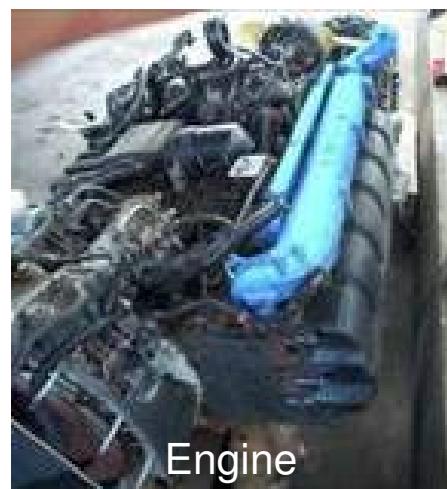
End-of-life processing and aluminium
inventory



Annex II.1

Road tractor

First dismantling steps



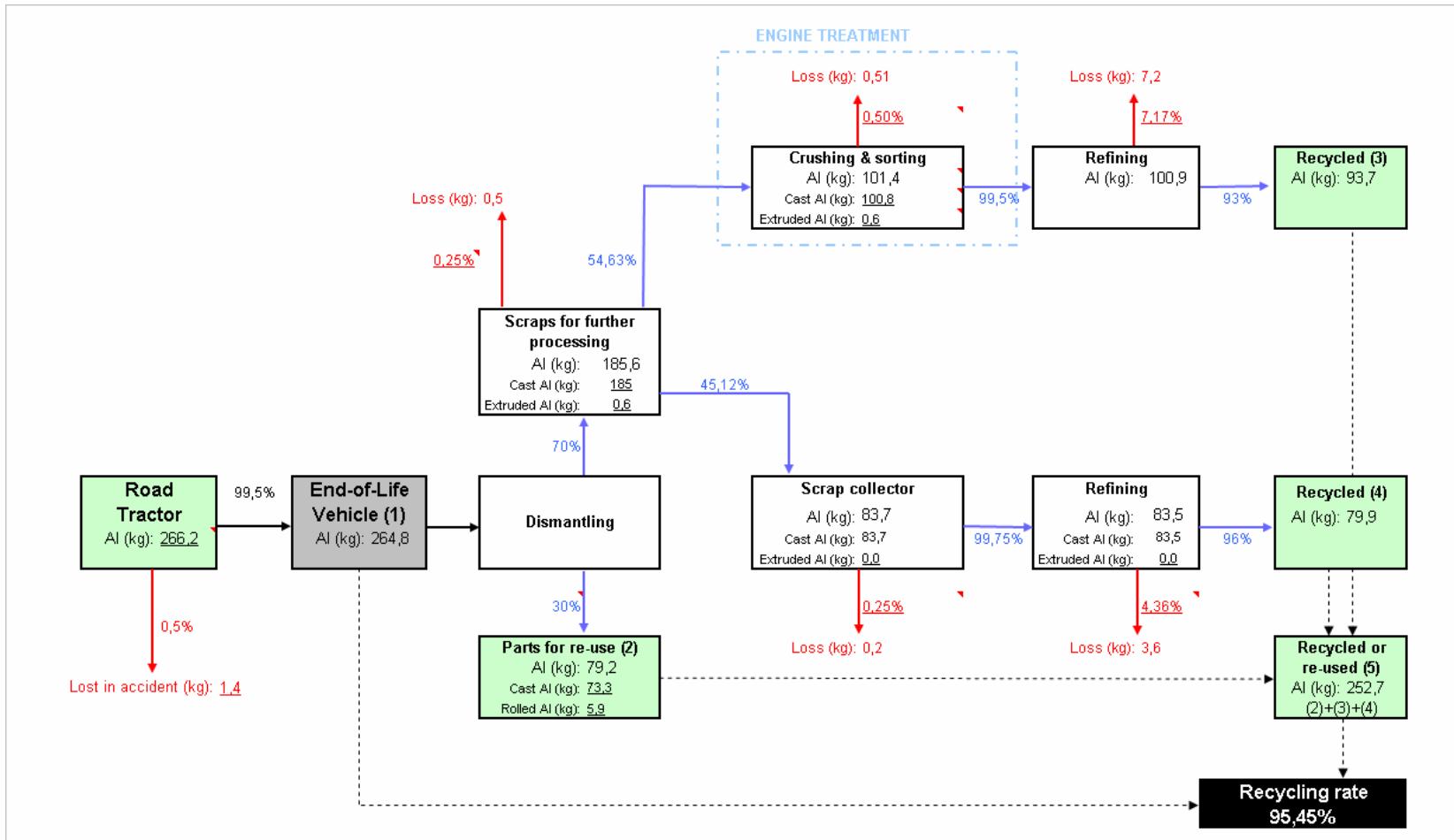
Aluminium inventory (powertrain excluded)

	Designation	Alu	Parts for re-use	recycling	Weight (kg)
Cabin part	Transmission case	•		•	30
	2 step plate support	•		•	
	2 driver's cab support	•		•	
	2 filler panel support	•		•	
	Bracket + top bracket	•		•	
	3 Radiators	•		•	31
	Air valve	•		•	1.5
Sub total :					83.7 kg
Chassis part	Front suspension	•	•		8.8
	Tilt arm	•	•		2.8
	Rear fitting	•	•		1.5
	Rear E strike	•	•		3.3
Sub total :					16.4 kg

Aluminium inventory from powertrain

	Designation	Alu	Parts for re-use	recycling	Weight (kg)
Powertrain parts	Extension housing	●		●	20.7
	Mounting joint spie AV	●		●	1
	Valve housing	●		●	2.2
	Filter head G.O.	●		●	1.6
	Oil filter head	●		●	4.3
	Vanne Parker	●		●	0.8
	Cylinder head cover G9	●		●	18.8
	Cup G9	●		●	27.1
	Intake manifold	●		●	5.3
	Timing gear cover	●		●	1.8
	Vanne AVU	●		●	1.7
	EPG	●		●	4.3
	Belt tensioning idler pulley	●		●	1.5
	Logic controller	●		●	1.8
	Cooling plate	●		●	0.7
	Air heater	●		●	0.8
	Air inlet tube	●		●	0.8
	PTO plate	●		●	0.6
	Exchanger plate	●		●	5.8
	Spacer engine fan	●		●	0.3
Sub total :					101.9 kg
Powertrain parts	Oil pump	●	●		1.2
	Hydraulic pump	●	●		6.3
	Water pump	●	●		10.9
	turbocharger	●	●		2
	Starter	●	●		8.9
	Air conditioning system	●	●		7.9
	Alternator	●	●		5.5
	Air compressor	●	●		20.1
Sub total :					62.8 kg

Mass flow and recycling rate





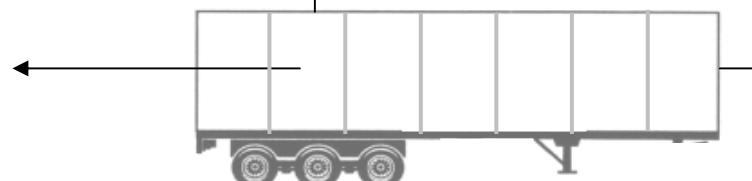
Annex II.2

Flatbed semi-trailer

Dismantling of the superstructure



← Framing system →



Side curtain



Front wall

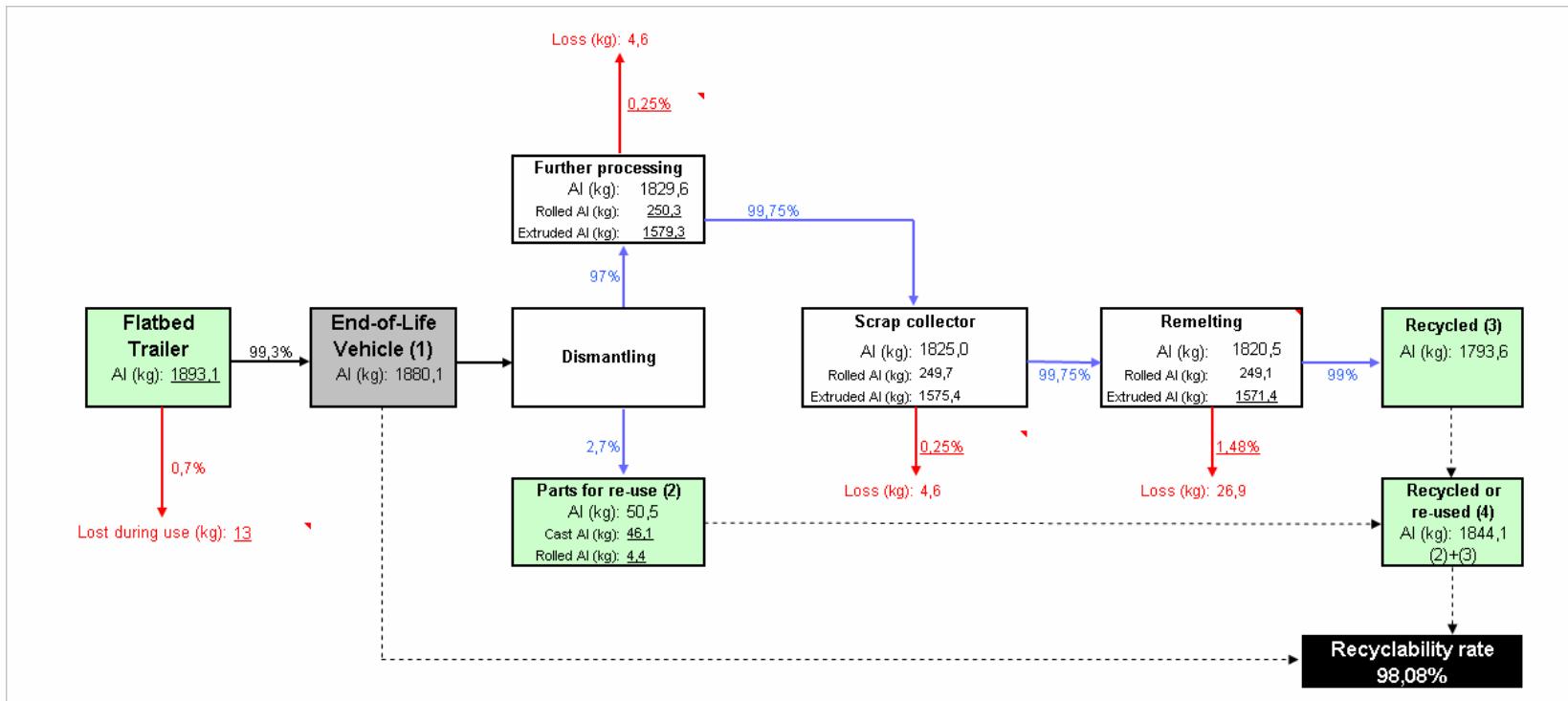
Dismantling of chassis and flooring



Aluminium inventory

Designation	Alu	Other Mat.	Re-use	recycling	Weight (kg)	Process
Cross sill of roof	●			●		Extruded
Omegas	●			●		Extruded
Rear door pillar	●			●		Extruded
Outer rail	●			●		Extruded
Safety hoods	●			●		Rolled
Front face protection shield	●			●		Rolled
Front face	●			●	120.3	Rolled
Chassis (in 3 parts)	●			●	1280	Rolled 10% Extruded 90%
Sub total : 1,829.6 kg						
Air valves (x5)	●		●		9.4	Cast
Valves safety hood	●		●		4.4	Rolled
Suspension gears on axles (x6)	●		●		30.6	Cast
Brake cylinders (x4)	●		●		6	Cast
Spacer bands	●		●		0.12	Cast
Sub total : 50.5 kg						

Mass flow and recycling rate





Annex II.3

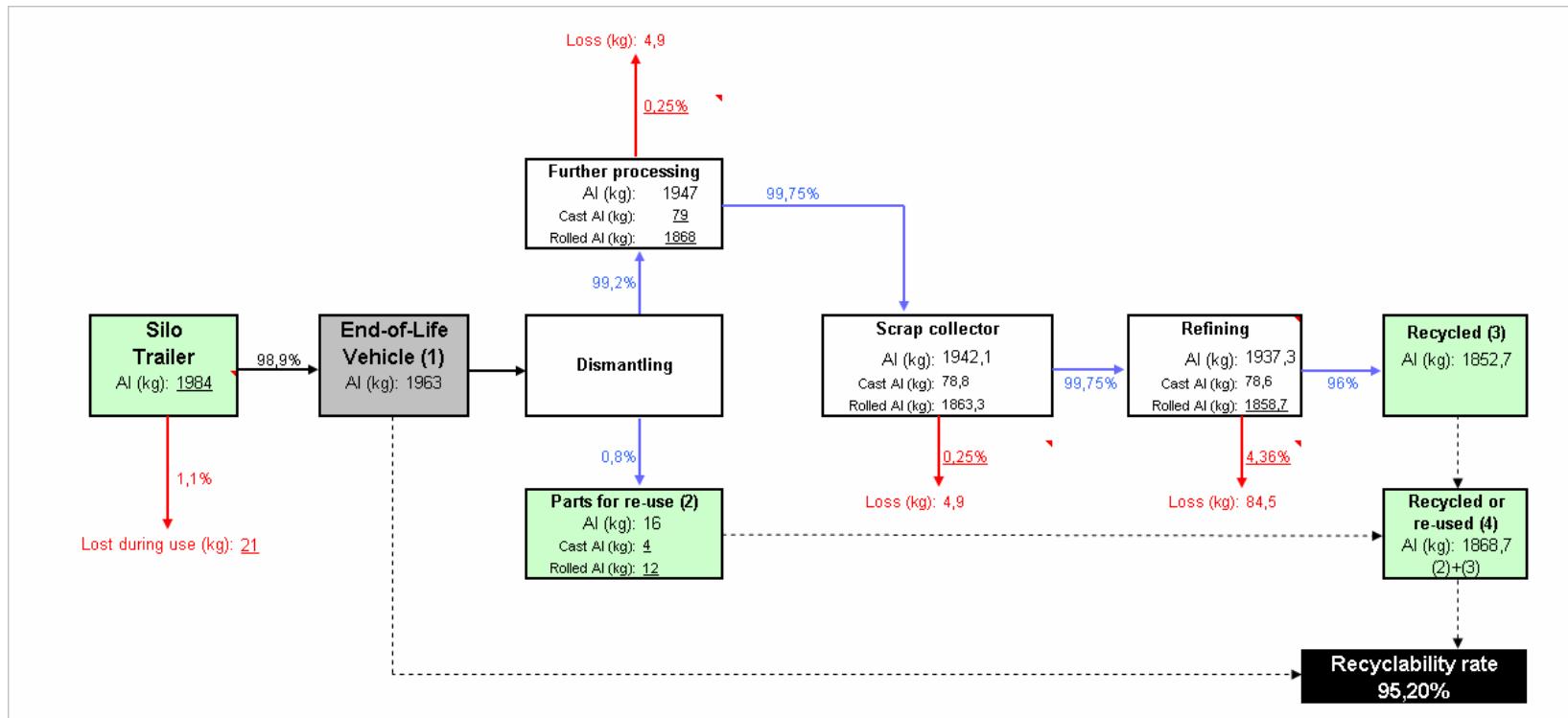
Silo semi-trailer

Main processing steps



Aluminium inventory

Mass flow and recycling rate

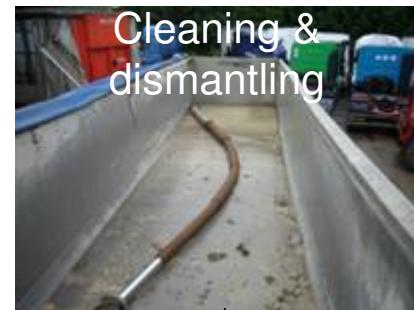




Annex II.4

Tipping semi-trailer

Main dismantling steps



Mass flow and recycling rate

