



<b>Description (Summary):</b> Vehicle dismantling scheme of selected components according to 2005/64/EC Annex 1 paragraph 3, 4 as well as ISO 22628 and according to end-of-life recycling quota calculation for INEOS Grenadier Utility Wagon.	
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# Dismantling documentation

## INEOS GRENADIER

Version: 1.0

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### **Purpose/Objective**

According to regulation 2005/64/EC, manufacturer shall submit a listing of the dismantled component parts, declared by the manufacturer with respect to the dismantling stage, and the process recommends for their treatment.

For the purpose of type approval process, the dismantling scheme and the material break down should be declared accordance with standard ISO 22628: 2002, which is considered for the recycle quota calculation.

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## General overview, structure

Selected components according to 2005/64/EC Annex 1 paragraph 3, 4 as well as ISO 22628 and according to end-of-life recycling quota calculation for INEOS Grenadier Utility Wagon.

Pretreatment components affected are listed in this document as follows:

All fluids	Fuel, engine oil, gearbox and transmission oil, transfer case oil, axle differential oil, power steering oil, shock absorber fluid, AC refrigerant, windscreen washer fluid, engine mounting oil, brake fluid, coolant
Batteries	Starter battery, auxiliary battery
Oil filters	Engine Oil Filter
Liquefied petroleum tanks	N/A
Compressed natural gas tanks	N/A
Tyres	Including spare wheel & tyre
Catalytic converters	Catalyst
Airbags and pyrotechnical devices	Airbags, belt restrainer if applicable
Dismantling	Glasses

The document is structured according to the list of parts below:

1. Batteries (all)
2. Pyrotechnics
3. Fuels
4. A/C gases and fluids
5. Draining
6. Catalysts
7. Tires
8. Dismantling parts

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#### Batteries (all)

##### Starter Battery General Information

Derivative	All models
Family	Pretreatment
Material	Lead, plastic
Quantity	2
Weight	28948 g
Position	Under rear seat row, left seat
Device(s)	none
Safing Method	none
Adaptor	none

##### Treatment

Tools	Spanner 14 mm
Fixings	2 nuts 2 clips 2 bolts
Method	Remove seat bench, release cables, release fixings
Comment	No further comment

##### Additional information

Common information [[Link to starter battery safety notice](#)]

##### Auxiliary Battery General Information

Derivative	All models
Family	Pretreatment
Material	Lead, plastic
Quantity	2
Weight	22000 g
Position	Under rear seat row, right seat
Device(s)	none
Safing Method	none
Adaptor	none

##### Treatment

Tools	Spanner 14 mm
Fixings	2 nuts 2 clips 2 bolts

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Method	Remove seat bench, release cables, release fixings
Comment	No further comment

Additional information

Common information [[Link to starter battery safety notice](#)]

## Pyrotechnics

### Driver Airbag

#### General Information

Derivative	All models
Family	Pretreatment
Material	Pyrotechnic propellant
Quantity	1
Weight	970 g
Position	Steering Wheel
Device(s)	One device, one inflator
Safing Method	none
Adaptor	none

#### Treatment

Tools	Deployment equipment
Fixings	None
Method	In accordance with deployment instructions
Comment	No further comment

Additional information

[Link to safe handling of airbag and other pyrotechnic devices removal and recycling advice](#)

### Passenger Airbag

#### General Information

Derivative	All models
Family	Pretreatment
Material	Pyrotechnic propellant
Quantity	1
Weight	2.000 g
Position	Upper dashboard
Device(s)	One device, one inflator
Safing Method	none
Adaptor	none

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Treatment

Tools	Deployment equipment
Fixings	None
Method	In accordance with deployment instructions
Comment	No further comment

Additional information

[Link to safe handling of airbag and other pyrotechnic devices removal and recycling advice](#)

**Curtain Airbag**

General Information

Derivative	All models
Family	Pretreatment
Material	Pyrotechnic propellant
Quantity	2 CAB: 1 left, 1 right
Weight	1890 g
Position	Cabin ceiling upper left, right at driver/passenger head position
Device(s)	One device, one inflator
Safing Method	none
Adaptor	none

Treatment

Tools	Deployment equipment
Fixings	None
Method	In accordance with deployment instructions
Comment	No further comment

Additional information

[Link to safe handling of airbag and other pyrotechnic devices removal and recycling advice](#)

**Driver Knee Airbag**

General Information

Derivative	All models
Family	Pretreatment
Material	Pyrotechnic propellant
Quantity	1
Weight	1260 g
Position	Below steering wheel
Device(s)	One device, one inflator
Safing Method	none
Adaptor	none



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Treatment

Tools	Deployment equipment
Fixings	None
Method	In accordance with deployment instructions
Comment	No further comment

Additional information

[Link to safe handling of airbag and other pyrotechnic devices removal and recycling advice](#)

**Passenger Knee Airbag**

General Information

Derivative	All models
Family	Pretreatment
Material	Pyrotechnic propellant
Quantity	1
Weight	1260 g
Position	Middle right dashboard
Device(s)	One device, one inflator
Safing Method	none
Adaptor	none

Treatment

Tools	Deployment equipment
Fixings	None
Method	In accordance with deployment instructions
Comment	No further comment

Additional information

[Link to safe handling of airbag and other pyrotechnic devices removal and recycling advice](#)

**Front Seatbelt Pretensioners**

Petrol engine

General Information

Derivative	Petrol only
Family	Pretreatment
Material	Pyrotechnic propellant
Quantity	2
Weight	1.259 g
Position	Front lh, rh, driver and passenger seat
Device(s)	One device, one inflator
Safing Method	none
Adaptor	none

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Treatment

Tools	Deployment equipment
Fixings	None
Method	In accordance with deployment instructions
Comment	No further comment

Additional information

[Link to safe handling of airbag and other pyrotechnic devices removal and recycling advice](#)

**Diesel engine**

General Information

Derivative	Diesel only
Family	Pretreatment
Material	Pyrotechnic propellant
Quantity	2
Weight	646 g
Position	Front lh, rh, driver and passenger seat
Device(s)	One device, one inflator
Safing Method	none
Adaptor	none

Treatment

Tools	Deployment equipment
Fixings	None
Method	In accordance with deployment instructions
Comment	No further comment

Additional information

[Link to safe handling of airbag and other pyrotechnic devices removal and recycling advice](#)

Fuels

Petrol

General Information

Derivative	Petrol models
Family	Pretreatment
Material	Fuel
Quantity	1
Weight	93.000 ml
Position	Rear, right underbody

Treatment

Tools	Piercing equipment Draining equipment
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Fixings	None
Method	Pierce at lowest point, drain
Comment	No further comment

Diesel

General Information

Derivative	Diesel models
Family	Pretreatment
Material	Fuel
Quantity	1
Weight	93.000 ml
Position	Rear, right underbody

Treatment

Tools	Piercing equipment Draining equipment
Fixings	None
Method	Pierce at lowest point, drain
Comment	No further comment

A/C (Gases, Fluids)

Air conditioning oil R1234yf

General Information

Derivative	R1234yf models
Family	Pretreatment
Material	Oil
Quantity	1
Weight	540 g
Position	Engine compartment

Treatment

Tools	AC Gas Remover
Fixings	None
Method	In accordance with gas remover instructions
Comment	No further comment

Air conditioning oil R134a

General Information

Derivative	R134a models
Family	Pretreatment
Material	Oil
Quantity	1
Weight	540 g
Position	Engine compartment

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**Treatment**

Tools	AC Gas Remover
Fixings	None
Method	In accordance with gas remover instructions
Comment	No further comment

**Draining**

Ad Blue

**General Information**

Derivative	Diesel models only
Family	Pretreatment
Material	Other liquids
Quantity	1
Weight	17.000 ml
Position	Rear, right underbody

**Treatment**

Tools	Piercing equipment Draining equipment
Fixings	None
Method	Pierce at lowest point, drain
Comment	No further comment

**Brake Fluid**
**General Information**

Derivative	All models
Family	Pretreatment
Material	Brake fluid
Quantity	1
Weight	970 g
Position	Lower, lh, rh

**Treatment**

Tools	Brake fluid suction equipment
Fixings	-
Method	In accordance with suction equipment, remove bleed valve cap, connect to bleed valve, evacuate system
Comment	No further comment

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### Coolant

#### General Information

Derivative	All models
Family	Pretreatment
Material	Coolant
Quantity	1
Weight	4.500 g
Position	Front, lower engine compartment

#### Treatment

Tools	Spanner Draining tray
Fixings	VDA Clamp
Method	Open coolant reservoir in engine bay, release VDA clamp at main cooler, drain
Comment	No further comment

### Shock absorber Oil Front sw

#### General Information

Derivative	All models
Family	Pretreatment
Material	Oil
Quantity	2: front lh, rh
Weight	299 g
Position	Front right, front left

#### Treatment

Tools	Shock absorber draining equipment. Draining tray
Fixings	-
Method	Pierce shock absorbers, drain
Comment	No further comment

### Shock absorber Oil Rear sw

#### General Information

Derivative	All models
Family	Pretreatment
Material	Oil
Quantity	2: rear lh, rh
Weight	308 g
Position	rear right, rear left

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Treatment

Tools	Shock absorber draining equipment. Draining tray
Fixings	-
Method	Pierce shock absorbers, drain
Comment	No further comment

**Differential Oil**

General Information

Derivative	All models with front and rear locking differential
Family	Pretreatment
Material	Oil
Quantity	2
Weight	2.100 ml
Position	Front underbody, rear underbody

Treatment

Tools	Hex M22 Draining tray
Fixings	-
Method	Remove drain plug, drain
Comment	No further comment

**Transfer case Oil**

General Information

Derivative	All models
Family	Pretreatment
Material	Oil
Quantity	1
Weight	2.340 ml
Position	Middle underbody

Treatment

Tools	Spanner 14 mm Draining tray
Fixings	-
Method	Remove drain plug, drain
Comment	No further comment

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#### Engine Oil

Petrol engine

##### General Information

Derivative	All petrol models
Family	Pretreatment
Material	Oil
Quantity	1
Weight	7.000 ml
Position	Front underbody

##### Treatment

Tools	Socket 17 mm Draining tray Engine oil draining equipment
Fixings	-
Method	Remove drain plug, drain
Comment	No further comment

#### Diesel engine

##### General Information

Derivative	All diesel models
Family	Pretreatment
Material	Oil
Quantity	1
Weight	7.500 ml
Position	Front underbody

##### Treatment

Tools	Socket 17 mm Draining tray Engine oil draining equipment
Fixings	-
Method	Remove drain plug, drain
Comment	No further comment

#### Engine Oil Filter

##### General Information

Derivative	All models
Family	Pretreatment
Material	Oil, Paper, Metal
Quantity	1
Weight	75 g
Position	In engine

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#### Treatment

Tools	Filter wrench/socket wrench 32 mm Draining tray
Fixings	-
Method	Remove filter, drain, compress to expel retained oil
Comment	No further comment

#### Gear Box Oil

##### General Information

Derivative	All models
Family	Pretreatment
Material	Oil
Quantity	1
Weight	1.873 g
Position	In engine

#### Treatment

Tools	Hex 18 mm Draining tray Oil removal equipment
Fixings	-
Method	Remove plug, drain
Comment	No further comment

#### Windscreen Washer Fluid

##### General Information

Derivative	All models
Family	Pretreatment
Material	Wash fluid
Quantity	1
Weight	3.000 g
Position	In engine compartment

#### Treatment

Tools	Draining tray Suction equipment
Fixings	-
Method	Use suction equipment to evacuate washer fluid system
Comment	No further comment



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**Power Steering Oil**

## General Information

Derivative	All models
Family	Pretreatment
Material	Oil
Quantity	1
Weight	1.552 g
Position	In engine compartment

## Treatment

Tools	Hex M8x1,5 Draining tray Oil removal equipment
Fixings	-
Method	Remove vent plug at top of steering gear, connect draining equipment, open power steering oil canister, drain
Comment	No further comment

**Steering Shock Absorber Oil**

## General Information

Derivative	All models
Family	Pretreatment
Material	Oil
Quantity	1
Weight	338 g
Position	Front underbody

## Treatment

Tools	Shock absorber draining equipment. Draining tray
Fixings	Hex M12x1,5 Nut M14x1,5
Method	Pierce shock absorbers, drain
Comment	No further comment

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### Catalysts (Catalysts, DPFs, Fluids)

#### Catalyst

##### General Information

Derivative	Petrol only
Family	Pretreatment
Material	Ceramic, metal
Quantity	1
Weight	3608 g
Position	Position 1 [provide drawing, mark part with colour and 1]
Device(s)	none
Safing Method	none
Adaptor	none

##### Treatment

Tools	Hydraulic cutters Pneumatic saw
Fixings	none
Method	Cut off, break off, remove
Comment	No further comment

### Tires (Tires, Tire fit, ...)

#### Tires

##### General Information

Derivative	All
Family	Pretreatment
Material	Rubber, steel, aluminium
Quantity	1
Weight	92.975 g
Position	Front lh, rh, rear lh, rh, rear door
Device(s)	none
Safing Method	none
Adaptor	none

##### Treatment

Tools	Tire dismounting tool
Fixings	None
Method	Release bolts, use tire dismounting tool to separate rubber tire from steel rim
Comment	No further comment

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#### Windscreen

##### General Information

Derivative	All
Family	Glass
Material	Glass, PVB
Quantity	1
Weight	9.345 g
Position	Front windshield

##### Treatment

Tools	Glass cutter Glass bag
Fixings	None
Method	Cut class out of body
Comment	No further comment

### Front Door Glass

##### General Information

Derivative	All
Family	Glass
Material	Glass
Quantity	2
Weight	5.100 g
Position	Front door glass, lh, rh

##### Treatment

Tools	Glass cutter Glass bag
Fixings	None
Method	Cut class out of body
Comment	No further comment

### Rear Fixed Glass

##### General Information

Derivative	All models
Family	Glass
Material	Glass
Quantity	2

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Weight	810 g
Position	Rear door glass

#### Treatment

Tools	Glass cutter Glass bag
Fixings	None
Method	Cut class out of body
Comment	No further comment

### Rear Door Glass

#### General Information

Derivative	Station wagon only
Family	Glass
Material	Glass
Quantity	2
Weight	2.700 g
Position	Rear door glass

#### Treatment

Tools	Glass cutter Glass bag
Fixings	None
Method	Cut class out of body
Comment	No further comment

### Back Door Glass lh

#### General Information

Derivative	All
Family	Glass
Material	Glass
Quantity	1
Weight	1.740 g
Position	Rear door glass

#### Treatment

Tools	Glass cutter Glass bag
Fixings	None
Method	Cut class out of body
Comment	No further comment

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**Back Door Glass rh**

General Information

Derivative	All
Family	Glass
Material	Glass
Quantity	1
Weight	4.096 g
Position	Rear door glass

Treatment

Tools	Glass cutter Glass bag
Fixings	None
Method	Cut class out of body
Comment	No further comment

**Body Side Glass**

General Information

Derivative	Station wagon only
Family	Glass
Material	Glass, PVB
Quantity	2
Weight	4.900 g
Position	Body side glass

Treatment

Tools	Glass cutter Glass bag
Fixings	None
Method	Cut class out of body
Comment	No further comment