Grenadier 12,000 mi inspection

1/3/2025 11,11923 miles

- 1) Work performed in accordance with Ineos Grenadier Petrol 12,000 mile schedule, copy attached.
- 2) Oil and oil filter provided by pdb. 7 Liters BMW Twin Power Turbo 0-20W 17FE+
- 3) Differential (axle) oil replaced and transfer oil replaced by Culmination Motorsports per Ineos specification, copy attached.
- 4) Exterior of power steering fluid reservoir was dirty from seepage. This appears to be normal.
- 5) Engine oil was clean. Previously changed at ~6,000 miles
- 6) Rear differential oil appeared dirty. Monitor at 18,000 miles or sooner.

P.S. Cabin air filter supplied by
Rocht Auto Mann does
not fit.

VISUAL VEHICLE INSPECTION REPORT						
Dealer Name:	CULMINATION MOTORSPOR					
Customer Name	9 9	ake/Model: 24 INEOS GRENDHAT/Tag#:				
		architodol.				
Mileage: 119		0 R F 0 0 6 4 7 1 Repair Order #: 6734				
CHECKED A	ND OKAY EED FUTURE ATTENTION	CHECKED AND OKAY MAY NEED FUTURE ATTENTION				
	EQUIRES IMMEDIATE ATTENTION	REQUIRES IMMEDIATE ATTENTION				
	INTERIOR/EXTERIOR	INTERIOR/EXTERIOR				
	Head Lights / Tail Lights / Turn Signals / Brake Lights / Hazard Warning Lights / Exterior Lamps / License Plate Lights	Battery Terminate / Cables / Mountings				
V	Windshield Washer Spray / Wiper Operation / Wiper Blades	Check Condition of Battery (Storage Capacity Test) (2.28)				
	Windshield Condition (Inspect for Cracks, Chips, or Pitting)	Pass Recharge Retest Fail Factory Spec Cold Cranking Amps Actual Cold				
V	Mirrors / Glass	Actual Cold Cranking Amps 823 BRAKE AND TIRE				
	Emergency Brake Adjustment	Left Front Right Front				
V	Horn Operation	Brake Liningmm Brake Liningmm Brake Liningmm Brake Lining				
V	Fuel Tank Cap Gasket	Wear Pattern Nove Tire Pressure PSI				
	Air Conditioning Filter (if equipped)	Before 38 After 42 Before 38 After LIZ				
	Clutch Operation (if equipped)	Rotor / Drum				
	Back-up Lights Left / Right	Alignment Check Needed Wheel Balance Needed				
	Dash Warning Lights	Left Rear Right Rear				
	Carpet / Upholstery / Floor Mats Floor DIFT	Brake Lining 16 mm Brake Lining 10 mm				
	UNDER VEHICLE	Tire Tread				
U	Shock Absorbers / Suspension / Struts	Tire Pressure PSI Before 79 After 49 Before 39 After 49				
V	Steering Gear Box / Linkage and Boots / Ball Joints / Dust Covers	Rotor Drum Rotor / Drum				
	Muffler / Exhaust Pipes / Mountings / Catalytic Converter	Brake Inspection Not Performed This Visit PRIOR BODY DAMAGE				
	Engine Oil and/or Fluid Leaks Reputers	PRIOR BODT DAWAGE				
	Brake Lines / Hoses / Parking Brake Cable					
V	Drive Shaft Boots / Constant Velocity Boots / U-joints / Transmission Linkage (if equipped)					
	Transmission / Differential / Transfer Case (Check Fluid Level, Fluid Condition and Fluid Leaks)					
V	Fuel Lines and Connections / Fuel Tank Band / Fuel Tank Vapor Vent Systems Hoses					
	Inspect Nuts and Bolts on Body Chassis					
	UNDER HOOD	ADVISOR CUSTOMER ACKNOWLEDGEMENT				
	Fluid Levels: Oil / Coolant / Battery / Power Steering / Brake Fluid / Washer / Automatic Transmission	COMMENTS / ESTIMATES				
	Engine Air Filter	1 SMALL LEAR OFS RESU. VCOOLANT WAS - LOW TOPPED OFF FIRMLE FIND - LOW TOPPED OFF				
V	Drive Belts (condition and adjustment)	VCOOLANT WAS - LOW TOPPERS OFF				
V	Cooling System Hoses / Heater Hoses / Air Conditioning Hoses and Connections	Bruke fluid - Low Topped off				
V	Radiator Core / Air Conditioning Condenser (if equipped)					
V	Coolant Recovery Reservoir Fluid Level / Condition Filiar					
	Clutch Reservoir Fluid / Condition (as equipped)					



Shop Name: Culmination Motorsports Tel: 9073064448

Email: --

Address: 160 W 91st Ave

Report ID: 15e0f6d2471b4b0baf3e5b02e2952a26 Test Time: 2025/01/03 01:15:51 Technician: --

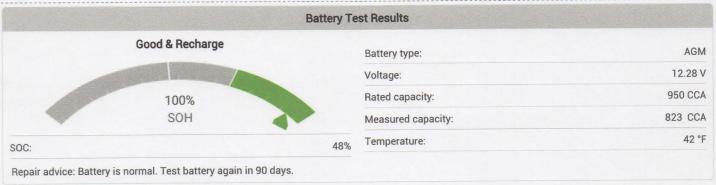
Out-vehicle test

Device information

Scanner: D1 Battery ID: --

Details: --

Serial Number: V17GMCC01288



Customer name:	
Technician:	
Date:	

Note:Please save a copy of this report for your records.



INEOS Grenadier Quick Ref Guide Specifications

The following tables outline the compliant products that can be used when conducting Service work on the INEOS Grenadier.

All the products in the tables have the same performance characteristics as those used in vehicle manufacture.

Only Products listed in the tables should be used when carrying out repairs/servicing to the INEOS Grenadier.

If any of the products listed in the tables are not available in the market in which you are located, then contact the product supplier to ascertain if there is a superseded product with the same performance and subsequently your INEOS Regional Technical Support Representative for guidance/assistance before continuing with any repair.

Product Type	Supplier	Specification	Quantity		
Engine Oil Petrol	Titan EM BMW 4615E-0W	OW-20 ACEA C5 LL-17FE	6.5 litres		
	Petronas Syntium 0W30DG	0/5W-30 ACEA C2 LL-12FE	7.0 litres		
Engine Oil Diesel	SHELL 0W30 XSA10001JH	OW-30 ACEA C2 LL-12FE	7.0 litres		
Anti-Freeze (coolant high and low	BMW 83195A42DF3	Lifetime coolant	HT 10.5 litres		
circuits)	BMW 83195A42DF3	Lifetime coolant	LT 2.4 litres		
Transfer Case oil	Titan Sintopoid	75w-90	1.8 litres unit drain 2.64 litres unit and cooling circuit oil change*		
		75w-85	Fully compatible		
Axle oil	Fuchs Titan super gear	SAE 80W-90 GL-5	Front Axle 2.1 litres		
Shelf life 3 years	Fuchs Titan super	SAE 80W-90 GL-5	Rear Axle 2.1 litres		
Petrol 8HP51X	ZF	LifeGuard Fluid 8	10.15 Ltrs		
Diesel 8HP76X	ZF	LifeGuard Fluid 8	9.35 Ltrs		
Power Steering	Comma	CHF 11S Pentosin Oil	2.5 (TBC)		
AdBlue			17 Ltrs		



INEOS GRENADIER

Petrol 12,000 Miles - 12-Month Service Intervals

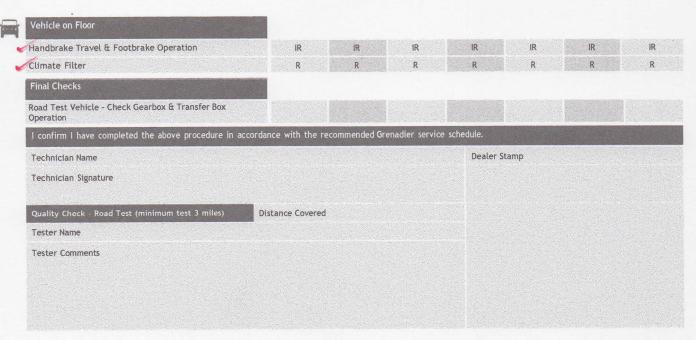
License Plate	Repair Order #			Mileage			
LICEISE PIALE	epan Order #			Milleage			
Key	Senether St. Co. Lattice Service				\$74 curso (2003) (Arica)		
A= Adjust Top Up I = Inspect Mileage	12,000	24,000	36,000	48,000	60,000	72,000	84,000
R = Replace IR = Inspect Replace Months	12	24	36	48	60	77	84
Initial Checks							
				,			
Check for Outstanding Campaigns or Recalls							
Complete Body Inspection				1	1		
Complete VHC						1	
Vehicle Functionality (Prior to lift)							
Horn & Toot Function	1	1	1	- 1	1	- 1	1
Interior Lights	1	1	1	1	- 1	- 1	- 1
Exterior Light Function (lenses & glass condition)	1	1	1	1	1		1
Windscreen Wiper Blades (including spare)	IR	IR	IR	IR	IR	IR .	IR
Seatbelt & Buckle Check	1	1	1	- 1	- 1	- 1	I
Warning Triangle & Aux Equip	l .	1		1.	- 1	1	L
First Aid Kit (check expiry date and record)	1	1	1	1			- 1
Door Hinge, Check Strap & Lock Barrels Clean & Lube	A	A	A	A	A	A	A
Read DTC's None	1				1		
Reset Service Indicator	_ A	Α	A	A	A	Α	А
Under Bonnet Checks							
Windscreen Washers Fluid & Spray Pattern (heated washer	Α	Α	A	A	A	А	Α
jet operation if fitted) Headlight Adjustment (market specific)							
	A	A	A	A	A	A	A
Skuttle Chamber Clean Drain Channels	,	D.		n		1	
Brake Fluid Check (inc water content)	A	R	A	R	A	R	A
Coolant Check (level & anti-freeze content) *	A	Α	A	A	А	A	R
Spark Plugs Air Filter	N/A			R			
Aux Belt	IR	R IR	ID.	R IR	IR	R	10
			IR .			IR A	IR.
Power Steering Fluid	A	A	A	A	A	A	Α .
Air Conditioning Operation			1	F	1	1	1
Vehicle Raised on Lift							
Check Tyre Pressures	A	A	A	A	A	Α	A
Remove & Rotate Road Wheels (torque wheel nuts to spec	c) A	A	Α	A	A	A	Α
Record Tread Depths (including spare)	1	1	1	1	- 1	1	1
Check Front & Rear Brake Pad Thickness	1	T	- 1	- 1	l l	- 1	- 1
Check Brake Disc Condition	1 1	L	1	1	- 4	1	- 1
Oil & Filter Change	R	R	R	R	R	R	R
Pipes & Hoses Condition	1	1	1	1.	1	Ī	. 1
Vac Pipes & Breather Condition	IR	IR	l IR	IR	IR	IR .	IR
Transfer Box Oil*	A	A	A	A	R	Α	Α
Axle Oil*		Α	A	A	A	A	R
Gearbox Oil*	A	A	A	Α	A	A	R
Brake & Fuel Lines (condition & routing)	1	1	1	1	1	1	1
Exhaust System (condition & leaks)	L	1	- 1	1	1	1	1
All Front & Rear Suspension - Ball Joints - Hub Swivel	1	L	1	- 1	ı	1	i i
Joints - Steering Linkages & Fasteners for wea & securit	У	1		1		ı	
Inspect All Prop shafts for Wear & Security Steering & Suspension Springs & Rubber Elements Boots	.		- 1	1			,
			TOTAL SPECIAL PROPERTY OF THE			THE RESIDENCE OF THE PROPERTY OF THE PARTY O	ner transmitten and the second

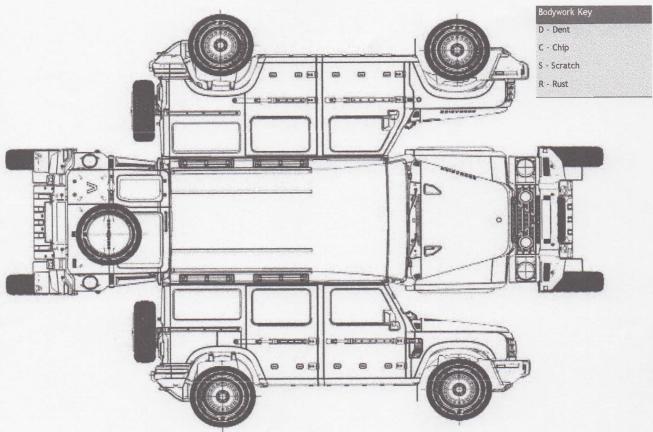




INEOS GRENADIER

Petrol 12,000 Miles - 12-Month Service Intervals





*S1AKA market specific *Gearbox oil change every 7 years or 84,000 miles. *Axle oil change at year 1 or 12,000 miles then at year 7 or 84,000 miles thereafter. *Coolant change every 7 years or 84,000 miles. *Transfer box oil change every 5 years or 60,000 miles.





From: Pete Brown pdbrown170b@me.com Subject: Re: INEOS Grenadier 12K service

Date: Dec 27, 2024 at 1:25:16 PM

To: Bailey Buckingham bailey@elliottbayineosgrenadier.com

Bailey,

I found this on a BMW dealer site. VHC stands for vehicle health check which seems to be the customary and reasonable very basic periodic inspections. Most of these are included in the Ineos schedule for 12k service.

To ensure your experience with Conlans and BMW remains **PREMIUM**, we will give your vehicle a Visual Health Check at no extra cost to you that will assess your vehicles overall condition. This includes:

- Check of all of your Engine fluid levels, including Oil and Coolant.
- Checking your Brake Fluid level.
- Checking the brake pads for wear.
- Checking the condition of your Tyres.
- Check for any Service Inclusive packages or Warranty that may be already on your vehicle.
- Check of any outstanding campaigns on your vehicle.
- Checking Drive Belt Condition .

We shall then present you with an electronic print out advising you on any areas of your vehicle which may require attention at present or that may require attention in the future.

I checked with my dealer today and there are no recalls or software updates yet that I

don't have so the VHC seems to be pretty basic and most items are already identified in the Grenadier 12k service list.

If you find out anything, please let me know.

I found this on a BMW dealer siter VHC stands for wehicle health of 9199

Pete Brown before some of the bebulant are seent to feel, anothogonal

Anchorage Alaska

Cell: 907 748 7529

https://flic.kr/p/2md1XLD

Going home after a long day http://farm2.static.flickr.com/1415/1325102827_f322928754_b.jpg

The fleet at Summit. Mt. McKinley is about 45nm away at 20,320 msl. http://farm1.static.flickr.com/187/437346531_a9cb8d2482_b.jpg

On Dec 27, 2024, at 10:01 AM, Bailey Buckingham bailey@elliottbayineosgrenadier.com wrote:

Hey Pete,

- 1. I just checked my INEOS portal. Your Grenadier does not have any outstanding recalls at this time.
- 2. VHC? All I can figure out is it might mean Vehicle Health Check. Is

there any more context to this question?

- 3. You do not have to do anything with the center diff lock. The only thing you'd need to worry about is the drain and fill of the front and rear differential with GL5-80/90 generic brand differential oil.
- 4. Let me see if I can find a PDF with specific instructions for diff maintenance.

Front and rear axle - 80W90GL5 2.1 Liters front and back.

<image.png>

Thank you Pete.

Bailey Buckingham Service Advisor

Elliott Bay INEOS Grenadier

Main: 206.944.3040

Our Website | Directions





On Thu, Dec 26, 2024 at 3:35 PM Pete Brown <pd>pdbrown170b@me.com

Bailey,

Here are my questions based on the following docs. Are these docs the current ones?

rear differential with GL5-80/90 generic brand differential oil.

Regarding the 12k checklist, and 12 a 1000 W08 - eks user bus mor?

- 1) Are there any recalls?
- 2) What does VHC mean?
- 3) Your note refers to changing the front and rear diff oil. What about the center diff lock? Does it need to changed or adjusted? If so, what is the specification for that oil?
- 4) The 12k check list refers to transfer box oil, axle oil, and gear box oil. By "axle oil" do they mean diff lock oil? What is the specification for diff lock oil? If you have a document that refers to the fill height or amount of fresh oil for the diffs, that would be helpful.

Can you please provide the answers by Friday late afternoon? I'm suspect your shop mechanics can answer them in a minute.

Thanks,