

## 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are not available in the market in which you are located, then contact the product supplier to ascertain if there is a superseded product with the same performance and subsequently your INEOS Regional Technical Support Representative for guidance/assistance before continuing with any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	0W-20 ACEA C5 LL-17FE	6.5 litres
Engine Oil Diesel	Petronas Syntium 0W30DG	0/5W-30 ACEA C2 LL-12FE	7.0 litres
	SHELL 0W30 XSA10001JH	0W-30 ACEA C2 LL-12FE	7.0 litres
Anti-Freeze (coolant high and low circuits)	BMW 83195A42DF3	Lifetime coolant	HT 10.5 litres
	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 Shelf life 3 years	Fuchs Titan super gear	SAE 80W-90 GL-5	Front Axle 2.1 litres
	Fuchs Titan super gear	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 Quick Ref Guide Fluids / Specifications**

Front Axle		Specification		
		Min	Nom	Max
Toe	Left	0'	0'	0'
	Right	0'	0'	0'
	Total	0'	0'	0'
Camber	Left	-40'	0'	+40'
	Right	-40'	0'	+40'
Caster	Left	1° 24'	2° 00'	2° 36'
	Right	1° 24'	2° 00'	2° 36'
Max. Inner Wheel Angle	Left Turn	32° 30'	33° 00'	33° 30'
	Right Turn	32° 30'	33° 00'	33° 30'
Rear Axle		Specification		
Toe	Left	-25'	+0'	+25'
	Right	-25'	+0'	+25'
	Total	-25'	+0'	+25'
Camber	Left	-30'	0'	+30'
	Right	-30'	0'	+30'
Thrust Angle	Total	-12'	0'	+12'
Tyre Size	LT 265/70R17 S		LT 255/70R18 S	
Tyre Pressures				
Front / Rear U/L	2.5 / 2.5 Bar	36 / 36 PSI	2.5 / 2.5 Bar	36 / 36 PSI
Front / Rear L	3.0 / 3.4	43.5 / 49 PSI	3.0 / 3.4 Bar	43.5 / 49 PSI
Spare	3.4 Bar	49 PSI	3.4 Bar	49 PSI
Wheel Nut Torque	Alloy	160Nm	Steel	160Nm
		<b>Brake Disc's</b>		
		Min Thickness	Max thickness	Diameter
Front Disc	25mm	28mm	316mm	Internal Diameter 198mm
		Min Thickness	Max Thickness	Diameter
Rear Disc	10mm	12mm	305mm	Internal Diameter 200mm
Glass Tint	%	%		

	Gasoline Euro 4	Diesel Euro 4	Gasoline Euro 6d	Diesel Euro 6d	Gasoline LEV3	M1	N1
EU+WVTA accepted			X	X		R1234yf	R134a
NAFTA					X	R1234yf	
GCC	X					R134a	
ANZ			X	X		R1234yf	R1234yf
ASEAN	X	X	X*	X*		R134a	R134a
RoW (Continental Africa)	X	X				R134a	R134a