

Lubricating oil change intervals for built-in and marine engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality													
		DQC I		DQC II		DQC III		DQC IV		DQC II LA		DQC III LA		DQC IV LA	
		Lubricating oil change intervals in oh													
Engine types:	Engine version:	Lubricating oil load													
		Normal	High	Normal	High	Normal	High	Normal	High	Normal	High	Normal	High	Normal	High
1008	All engines	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*
1011	Aspirated engines	1000	500	1000	500	1000	500	1000	500	1000	500	1000	500	1000	500
2011	Turbocharged Engines	250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
TD/D 226	Aspirated engines	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
413/513	Turbocharged Engines	250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
912/913/914	Aspirated engines	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
	Turbocharged Engines	250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
BF 6L 913 BF 6L 914 C	with 176 kW at 2500 1/min	-	-	-	-	500	250*	500	250*	-	-	500	250*	500	250*
BFM 1012	All engines except:	500	250*	500	500	500	500	500	500	500	500	500	500	500	500
	engines in harvesting machinery, combined heat and power plants, electricity generators**	-	-	-	-	500	500	500	500	-	-	500	500	500	500

* No additional halving if other lubricating oil load factors corresponding to TR 0199-99-01217 apply.

** Power gensets are to be understood here as those with mains/parallel operation. Emergency power gensets are dealt with in the Technical Bulletin 0199-99-01126.

T-3: Lubricating oil change intervals for built-in and marine engines

DEUTZ is the sole owner of the trademark DQC which is protected by the German Patent and Trademark Office under file number 304 59 318. Furthermore, trademark protection exists in all countries of the European Union, in the USA, Canada and in China. DEUTZ retains all rights and claims regarding the DQC trade mark.

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		DEUTZ Lubricating oil quality													
		DQC I		DQC II		DQC III		DQC IV		DQC II LA		DQC III LA		DQC IV LA	
		Lubricating oil change intervals in oh													
Engine types:	Engine version:	Lubricating oil load													
		Normal	High	Normal	High	Normal	High	Normal	High	Normal	High	Normal	High	Normal	High
BFM 1013	All engines except:	250*	250*	500	500	500	500	500	500	500	500	500	500	500	500
	engines in harvesting machinery, combined heat and power plants, electricity generators**	-	-	-	-	500	500	500	500	-	-	500	500	500	500
	BF 4M 1013 FC														
	BF 6M 1013 FC (P ≤ 200 kw), CB*** closed														
	engines from non-road stage II														
	BF 6M 1013 FC (P ≤ 200 kw), CB*** open	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	BF 6M 1013 FC, Genset 200 kVA, CB*** open														
BF 6M 1013 FC (P > 200 kw), CB*** open	-	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*
BF 6M 1013 FC (P > 200 kw), CB*** closed	-	-	-	-	250*	250*	250*	250*	-	-	250*	250*	250*	250*	
BF 6M 1013 FC, Genset 200 kVA**, CB*** closed	-	-	-	-	-	-	500	500	-	-	-	-	500	500	
BFM 1015	All engines	250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
	1015 C Engines from non-road stage II	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	BF 6M 1015 MC ≤ 300 kW, BF 8M 1015 MC ≤ 400 kW	-	-	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
	1015 CP														
BF 6M 1015 MC > 300 kW, BF 8M 1015 MC > 400 kW	-	-	-	-	500	250*	500	250*	-	-	500	250*	500	250*	

* No additional halving if other lubricating oil load factors corresponding to TR 0199-99-01217 apply.

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*** CB = Crankcase breather

T-4: Lubricating oil change intervals for built-in and marine engines

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Lubricating oil change intervals for built-in and marine engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality													
		DQC I		DQC II		DQC III		DQC IV		DQC II LA		DQC III LA		DQC IV LA	
		Lubricating oil change intervals in oh													
Engine types:	Engine version:	Lubricating oil load													
		Normal	High	Normal	High	Normal	High	Normal	High	Normal	High	Normal	High	Normal	High
BFM 2012	All engines except:	250*	250*	500	500	500	500	500	500	500	500	500	500	500	500
	BF 4M 2012 C > 95 kW BF 6M 2012 C > 143 kW from non-road stage II at cylinder bore 101 mm or 98 mm with solenoid valve system														
	BF 6M 2012 C > 135 kW from non-road stage II at cylinder bore 98 mm with mechanical injection system engines in harvesting machinery, combined heat and power plants, electricity generators**	-	-	-	-	500	500	500	500	-	-	500	500	500	500
	Other engines from non-road stage II	-	-	500	500	500	500	500	500	500	500	500	500	500	500
BFM 2013	All engines except:	250*	250*	500	500	500	500	500	500	500	500	500	500	500	500
	engines from non-road stage II	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	BF 4M 2013 C > 90 kW, BF 6M 2013 C > 120 kW engines in harvesting machinery, combined heat and power plants, electricity generators**	-	-	-	-	500	500	500	500	-	-	500	500	500	500
2008 / 2009		250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
D 2011		500	250*	1000	500	1000	500	1000	500	1000	500	1000	500	1000	500
TD 2011		500	250*	500	500	500	500	500	500	500	500	500	500	500	500
* No additional halving if other lubricating oil load factors corresponding to TR 0199-99-01217 apply.															
** Power gensets are to be understood here as those with mains/parallel operation. Emergency power gensets are dealt with in the Technical Bulletin 0199-99-01126.															

T-5: Lubricating oil change intervals for built-in and marine engines

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Lubricating oil change intervals for built-in and marine engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality													
		DQC I		DQC II		DQC III		DQC IV		DQC II LA		DQC III LA		DQC IV LA	
		Lubricating oil change intervals in oh													
Engine types:	Engine version:	Lubricating oil load													
		Normal	High	Normal	High	Normal	High	Normal	High	Normal	High	Normal	High	Normal	High
TD/w 2011 TD/i 2011 TCD/w 2011		250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
TCD 2012 2V	CB** open	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	CB** closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
TCD 2012 4V	CB** open	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	All engines except:														
	L04 P > 88 kW L04 P > 132 kW CB** closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
Natural Fuel Engine TCD 2012 L06 2V/4V	In rapeseed oil operation as per DIN 51605	-		250*		250*		250*		250*		250*		250*	
TCD 2013 2V	CB** open	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	CB** closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
TCD 2013 4V	CB** open / closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
TCD 2015	CB** closed	-	-	-	-	500	250*	500	250*	-	-	500	250*	500	250*

* No additional halving if other lubricating oil load factors corresponding to TR 0199-99-01217 apply.
** CB = Crankcase breather

T-6: Lubricating oil change intervals for built-in and marine engines

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Lubricating oil change intervals for vehicle engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine types:	Engine version:	Lubricating oil change intervals in km x 1000						
TD/D 226 BFL 413/513/ 912/913/914	Aspirated engines	15	15	20	20	15	20	20
	Turbocharged Engines	10	15	20	20	15	20	20
BFM 1012 BFM 1013 BFM 2012 BFM 2013	Euro I	10	15	20	20	15	20	20
	Euro II and Euro III except:	-	15	20	20	15	20	20
	BF 4M 1013 FC, Euro II, ≤ 14 l, Lubricating oil content (first filling)	-	-	10	10	-	10	10
	BF 4M 1013 FC, Euro II, > 14 l, Lubricating oil content (first filling) BF 4M 1013 FC, Euro III	-	-	20	20	-	20	20
	BF 6M 1013 FC, Euro II, ≤ 19 l, Lubricating oil content (first filling) CB* open	-	10	10	10	10	10	10
BFM 1013	BF 6M 1013 FC, Euro II, > 19 l, Lubricating oil content (first filling), CB* open BF 6M 1013 FC, Euro III, CB* open	-	20	20	20	20	20	20
	BF 6M 1013 FC, Euro II, ≤ 19 l, Lubricating oil content (first filling) CB* closed	-	-	10	10	-	10	10
	BF 6M 1013 FC, Euro II, > 19 l, Lubricating oil content (first filling), CB* closed BF 6M 1013 FC, Euro III, CB* closed	-	-	20	20	-	20	20

* CB = Crankcase breather

T-7: Lubricating oil change intervals for vehicle engines (average speed approx. 25 km/h)

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Lubricating oil change intervals for vehicle engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine types:	Engine version:	Lubricating oil change intervals in km x 1000						
BFM 2012	BF 4M 2012 C > 95 kW, as of Euro II BF 6M 2012 C > 143 kW with cylinder bore 101 mm or 98 mm with solenoid valve system BF 6M 2012 C > 135 kW with cylinder bore 98 mm with mechanical injection system	-	-	20	20	-	20	20
BFM 2013	BF 4M 2013 C > 90 kW BF 6M 2013 C > 120 kW	-	-	20	20	-	20	20
BFM 1015	Euro I except:	-	15	20	20	15	20	20
	BFM 1015 CP Euro II	-	-	20	20	-	20	20
TCD 2013 4V	TCD 2013 L04 4V	-	25	45	45	25	45	45
	TCD 2013 L06 4V	-	30	50	50	30	50	50
	TCD 2013 L06 4V City bus	-	15	20	20	15	20	20
TCD 2015	-	-	-	20	20	-	20	20

T-8: Lubricating oil change intervals for vehicle engines (average speed approx. 25 km/h)

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Lubricating oil change intervals for vehicle engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine types:	Engine version:	Lubricating oil change intervals in km x 1000						
TD/D 226 BFL 413/513/ 912/913/914	Aspirated engines	20	20	30	30	20	30	30
	Turbocharged Engines	15	20	30	30	20	30	30
BFM 1013	Euro I	15	20	30	30	20	30	30
	Euro II and Euro III except:	-	20	30	30	20	30	30
	BF 4M 1013 FC Euro II, ≤ 14 l, Lubricating oil content (first filling)	-	-	15	15	-	15	15
	BF 4M 1013 FC Euro II, > 14 l, Lubricating oil content (first filling) BF 4M 1013 FC Euro III	-	-	30	30	-	30	30
	BF 6M 1013 FC Euro II, ≤ 19 l, Lubricating oil content (first filling) CB* open	-	15	15	15	15	15	15
	BF 6M 1013 FC Euro II, > 19 l, Lubricating oil content (first filling) CB* open BF 6M 1013 FC Euro III CB* open	-	30	30	30	30	30	30
	BF 6M 1013 FC Euro II, ≤ 19 l, Lubricating oil content (first filling) CB* closed	-	-	15	15	-	15	15
	BF 6M 1013 FC Euro II, > 19 l, Lubricating oil content (first filling) CB* closed BF 6M 1013 FC Euro III, CB* closed	-	-	30	30	-	30	30

* CB = Crankcase breather

T-9: Lubricating oil change intervals for vehicle engines (average speed approx. 40 km/h)

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Lubricating oil change intervals for vehicle engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine types:	Engine version:	Lubricating oil change intervals in km x 1000						
BFM 2012	BF 4M 2012 C > 95 kW, as of Euro II BF 6M 2012 C > 143 kW with cylinder bore 101 mm or 98 mm with solenoid valve system BF 6M 2012 C > 135 kW with cylinder bore 98 mm with mechanical injection system	-	-	30	30	-	30	30
BFM 2013	BF 4M 2013 C > 90 kW BF 6M 2013 C > 120 kW	-	-	30	30	-	30	30
BFM 1015	Euro I except:	-	20	30	30	20	30	30
	BFM 1015 CP Euro II	-	-	30	30	-	30	30
TCD 2013 4V	TCD 2013 L04 4V	-	40	60	60	40	60	60
	TCD 2013 L06 4V	-	50	70	70	50	70	70
	TCD 2013 L06 4V Regional bus	-	20	30	30	20	30	30
TCD 2015		-	-	30	30	-	30	30

T-10: Lubricating oil change intervals for vehicle engines (average speed approx. 40 km/h)

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Lubricating oil change intervals for vehicle engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine types:	Engine version:	Lubricating oil change intervals in km x 1000						
TD/D 226 BFL 413/513/ 912/913/914	Aspirated engines	30	30	40	40	30	40	40
	Turbocharged Engines	20	30	40	40	30	40	40
BFM 1013	Euro I	20	30	40	40	30	40	40
	Euro II and Euro III except:	-	30	40	40	30	40	40
	BF 4M 1013 FC Euro II, ≤ 14 l, Lubricating oil content (first filling)	-	-	20	20	-	20	20
	BF 4M 1013 FC Euro II, > 14 l, Lubricating oil content (first filling) BF 4M 1013 FC Euro III							
	BF 6M 1013 FC Euro II, > 19 l, Lubricating oil content (first filling) CB* closed BF6M 1013 FC Euro III, CB* closed	-	-	40	40	-	40	40
	BF 6M 1013 FC Euro II, ≤ 19 l, Lubricating oil content (first filling) CB* open	-	20	20	20	20	20	20
	BF 6M 1013 FC Euro II, > 19 l, Lubricating oil content (first filling) CB* open BF 6M 1013 FC Euro III CB* open	-	40	40	40	40	40	40
	BF 6M 1013 FC Euro II, ≤ 19 l, Lubricating oil content (first filling) CB* closed	-	-	20	20	-	20	20

* CB = Crankcase breather

T-11: Lubricating oil change intervals for vehicle engines (average speed approx. 60 km/h)

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Lubricating oil change intervals for vehicle engines

DEUTZ Compact Engines



		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine types:	Engine version:	Lubricating oil change intervals in km x 1000						
BFM 2012	BF 4M 2012 C > 95 kW, as of Euro II BF 6M 2012 C > 143 kW with cylinder bore 101 mm or 98 mm with solenoid valve system BF 6M 2012 C > 135 kW with cylinder bore 98 mm with mechanical injection system	-	-	40	40	-	40	40
BFM 2013	BF 4M 2013 C > 90 kW BF 6M 2013 C > 120 kW	-	-	40	40	-	40	40
BFM 1015	Euro I except:	-	30	40	40	30	40	40
	BFM 1015 CP Euro II	-	-	60	60	-	60	60
TCD 2013 4V	TCD 2013 L04 4V	-	60	80	80	60	80	80
	TCD 2013 L06 4V	-	75	100	100	75	100	100
	TCD 2013 L06 4V Intercity bus	-	30	50	50	30	50	50
TCD 2015	-	-	-	60	60	-	60	60

T-12: Lubricating oil change intervals for vehicle engines (average speed approx. 60 km/h)

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