

Volvo Penta									ZF Padova				21 November 2022			
ENGINE	RATING	POWER (kW)	POWER (HP)	POWER (mHP)	SPEED (rpm)	P / N (kw / rpm)	TORQUE (Nm)	Cylinders	light alloy	GEARBOX cast iron	P / N (kw / rpm)	DUTY	RATING Volvo	RATIO minimum	maximum	NOTES
																For deeper ratio, consult ZF
D1-13	Pleasure	9,0	12	12	3200	0,0028	27	2	ZF 15M		0,0152	Pleasure	5	1,556	1,875	
D1-13	Pleasure	9,0	12	12	3200	0,0028	27	2	ZF 25M		0,0215	Pleasure	5	2,273	2,273	
D1-13	Pleasure	9,0	12	12	3200	0,0028	27	2	ZF 25M		0,0177	Pleasure	5	2,737	2,737	
D1-13	Pleasure	9,0	12	12	3200	0,0028	27	2	ZF 15MA			Pleasure	5	1,875	2,632	
D1-13	Pleasure	9,0	12	12	3200	0,0028	27	2	ZF 15MIV			Pleasure	5	2,134	2,995	
D1-20	Pleasure	13,8	19	19	3200	0,0043	41	3	ZF 15M		0,0152	Pleasure	5	1,556	1,875	
D1-20	Pleasure	13,8	19	19	3200	0,0043	41	3	ZF 25M		0,0215	Pleasure	5	2,273	2,273	
D1-20	Pleasure	13,8	19	19	3200	0,0043	41	3	ZF 25M		0,0177	Pleasure	5	2,737	2,737	
D1-20	Pleasure	13,8	19	19	3200	0,0043	41	3	ZF 15MA			Pleasure	5	1,875	2,632	
D1-20	Pleasure	13,8	19	19	3200	0,0043	41	3	ZF 15MIV			Pleasure	5	2,134	2,995	
D1-30	Pleasure	20,9	28	28	3200	0,0065	62	3	ZF 15M		0,0152	Pleasure	5	1,556	1,875	
D1-30	Pleasure	20,9	28	28	3200	0,0065	62	3	ZF 25M		0,0215	Pleasure	5	2,273	2,273	
D1-30	Pleasure	20,9	28	28	3200	0,0065	62	3	ZF 25M		0,0177	Pleasure	5	2,737	2,737	
D1-30	Pleasure	20,9	28	28	3200	0,0065	62	3	ZF 15MA			Pleasure	5	1,875	2,632	
D1-30	Pleasure	20,9	28	28	3200	0,0065	62	3	ZF 15MIV			Pleasure	5	2,134	2,995	
D2 - 50	Pleasure	36,0	48	49	3000	0,0120	115	4	ZF 15M		0,0152	Pleasure	5	1,556	1,875	
D2 - 50	Pleasure	36,0	48	49	3000	0,0120	115	4	ZF 25M		0,0215	Pleasure	5	2,273	2,273	
D2 - 50	Pleasure	36,0	48	49	3000	0,0120	115	4	ZF 25M		0,0177	Pleasure	5	2,737	2,737	
D2 - 50	Pleasure	36,0	48	49	3000	0,0120	115	4	ZF 15MA			Pleasure	5	1,875	1,875	
D2 - 50	Pleasure	36,0	48	49	3000	0,0120	115	4	ZF 25MA		0,0215	Pleasure	5	2,227	2,227	
D2 - 50	Pleasure	36,0	48	49	3000	0,0120	115	4	ZF 25MA		0,0177	Pleasure	5	2,737	2,737	
D2 - 50	Pleasure	36,0	48	49	3000	0,0120	115	4	ZF 15MIV			Pleasure	5	2,134	2,134	
D2 - 50	Pleasure	36,0	48	49	3000	0,0120	115	4	ZF 25			Pleasure	5	1,969	2,800	
D2 - 60	Pleasure	40,0	54	54	3000	0,0133	127	4	ZF 15M		0,0152	Pleasure	5	1,556	1,875	
D2 - 60	Pleasure	40,0	54	54	3000	0,0133	127	4	ZF 25M		0,0215	Pleasure	5	2,273	2,273	
D2 - 60	Pleasure	40,0	54	54	3000	0,0133	127	4	ZF 25M		0,0177	Pleasure	5	2,737	2,737	
D2 - 60	Pleasure	40,0	54	54	3000	0,0133	127	4	ZF 15MA			Pleasure	5	1,875	1,875	
D2 - 60	Pleasure	40,0	54	54	3000	0,0133	127	4	ZF 25MA		0,0215	Pleasure	5	2,227	2,227	
D2 - 60	Pleasure	40,0	54	54	3000	0,0133	127	4	ZF 25MA		0,0177	Pleasure	5	2,737	2,737	
D2 - 60	Pleasure	40,0	54	54	3000	0,0133	127	4	ZF 15MIV			Pleasure	5	2,134	2,134	
D2 - 60	Pleasure	40,0	54	54	3000	0,0133	127	4	ZF 25			Pleasure	5	1,969	2,800	
D2 - 75	Pleasure	55,0	74	75	3000	0,0183	175	4	ZF 25M		0,0262	Pleasure	5	1,880	1,880	
D2 - 75	Pleasure	55,0	74	75	3000	0,0183	175	4	ZF 25M		0,0215	Pleasure	5	2,273	2,273	
D2 - 75	Pleasure	55,0	74	75	3000	0,0183	175	4	ZF 30M			Pleasure	5	2,696	2,696	
D2 - 75	Pleasure	55,0	74	75	3000	0,0183	175	4	ZF 25MA		0,0215	Pleasure	5	2,227	2,227	
D2 - 75	Pleasure	55,0	74	75	3000	0,0183	175	4	ZF 25MA		0,0177	Pleasure	5	2,737	2,737	Special approval
D2 - 75	Pleasure	55,0	74	75	3000	0,0183	175	4	ZF 25			Pleasure	5	1,969	2,800	

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ENGINE	RATING	POWER (kW)	POWER (HP)	POWER (mHP)	SPEED (rpm)	P / N (kw / rpm)	TORQUE (Nm)	Cylinders	light alloy	GEARBOX		DUTY	RATING Volvo	RATIO		NOTES			
										cast iron	P / N (kw / rpm)			minimum	maximum				
																For deeper ratio, consult ZF			
D4-175	Special Light Duty	129,0	173	175	2800	0,0461	440	4	ZF 45-1			Light	4	1,256	2,783				
D4-175	Special Light Duty	129,0	173	175	2800	0,0461	440	4	ZF 45A			Light	4	2,200	3,741				
D4-175	Special Light Duty	129,0	173	175	2800	0,0461	440	4	ZF 68A			Light	4	2,522	2,682				
D4-175	Special Light Duty	129,0	173	175	2800	0,0461	440	4	ZF 63C			Light	4	1,000	1,000				
D4-175	Special Light Duty	129,0	173	175	2800	0,0461	440	4	ZF 68IV			Light	4	1,294	2,477				
D4-230	Special Light Duty	169,0	227	230	3400	0,0497	475	4	ZF 68			Light	4	1,256	2,783				
D4-230	Special Light Duty	169,0	227	230	3400	0,0497	475	4	ZF 68A			Light	4	1,216	2,682				
D4-230	Special Light Duty	169,0	227	230	3400	0,0497	475	4	ZF 63C			Light	4	1,000	1,000				
D4-230	Special Light Duty	169,0	227	230	3400	0,0497	475	4	ZF 68IV			Light	4	1,294	2,477				
D4-270	Special Light Duty	198,6	266	270	3500	0,0567	542	4	ZF 68			Light	4	1,256	2,783				
D4-270	Special Light Duty	198,6	266	270	3500	0,0567	542	4	ZF 68A			Light	4	1,216	2,682				
D4-270	Special Light Duty	198,6	266	270	3500	0,0567	542	4	ZF 63C			Light	4	1,000	1,000				
D4-270	Special Light Duty	198,6	266	270	3500	0,0567	542	4	ZF 68IV			Light	4	1,294	2,477				
D4-300	Pleasure	221,0	296	301	3500	0,0631	603	4	ZF 68			Pleasure	5	1,256	1,933				
D4-300	Pleasure	221,0	296	301	3500	0,0631	603	4	ZF 220			Pleasure	5	2,478	3,000				
D4-300	Pleasure	221,0	296	301	3500	0,0631	603	4	ZF 68A			Pleasure	5	1,216	2,037				
D4-300	Pleasure	221,0	296	301	3500	0,0631	603	4	ZF 85A			Pleasure	5	1,567	2,500				
D4-300	Pleasure	221,0	296	301	3500	0,0631	603	4	ZF 63C			Pleasure	5	1,000	1,000				
D4-300	Pleasure	221,0	296	301	3500	0,0631	603	4	ZF 68IV			Pleasure	5	1,294	2,477				
D4-320	Pleasure	235,0	315	320	3600	0,0653	623	4	ZF 68			Pleasure	5	1,256	1,933				
D4-320	Pleasure	235,0	315	320	3600	0,0653	623	4	ZF 68A			Pleasure	5	1,216	2,037				
D4-320	Pleasure	235,0	315	320	3600	0,0653	623	4	ZF 63C			Pleasure	5	1,000	1,000				
D4-320	Pleasure	235,0	315	320	3600	0,0653	623	4	ZF 68IV			Pleasure	5	1,294	2,477				
D5A TA	Continuous	89,0	119	121	1900	0,0468	447	4	ZF 68		0,0442	Heavy	1	1,256	1,933	VP heavy duty for <250 kW is 3000 hours; SAE 3; ZF 45-1 out by 6,4%			
D5A TA	Continuous	89,0	119	121	1900	0,0468	447	4	ZF 68		0,0433	Heavy	1	2,480	2,783	VP heavy duty for <250 kW is 3000 hours; SAE 3; ZF 45-1 out by 6,4%			
D5A TA	Continuous	89,0	119	121	1900	0,0468	447	4	ZF 68A		0,0471	Heavy	1	1,216	1,216	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	89,0	119	121	1900	0,0468	447	4	ZF 85A		0,0696	Heavy	1	1,567	2,500	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	89,0	119	121	1900	0,0468	447	4	ZF 68IV		0,0471	Heavy	1	1,294	1,294	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	89,0	119	121	1900	0,0468	447	4	ZF 85IV		0,0726	Heavy	1	1,644	2,008	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	89,0	119	121	1900	0,0468	447	4	ZF 85IV		0,0696	Heavy	1	2,493	2,493	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 68		0,0442	Heavy	1	1,256	1,933	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 68		0,0433	Heavy	1	2,480	2,783	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 68A	ZF 45-1	0,0429	Heavy	1	2,200	3,741	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 68A		0,0471	Heavy	1	1,216	1,216	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 68A		0,0443	Heavy	1	1,563	2,037	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 85A		0,0696	Heavy	1	2,500	2,500	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 68IV		0,0471	Heavy	1	1,294	1,294	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 68IV		0,0442	Heavy	1	1,560	1,992	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Continuous	102,0	137	139	2300	0,0443	424	4	ZF 85IV		0,0696	Heavy	1	2,493	2,493	VP heavy duty for <250 kW is 3000 hours; SAE 3			
D5A TA	Medium	103,0	138	140	1900	0,0542	518	4	ZF 68		0,0539	Medium	2	1,256	1,933	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	103,0	138	140	1900	0,0542	518	4	ZF 68		0,0518	Medium	2	2,480	2,783	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	103,0	138	140	1900	0,0542	518	4	ZF 68A		0,0578	Medium	2	1,216	1,216	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	103,0	138	140	1900	0,0542	518	4	ZF 85A		0,0838	Medium	2	1,567	2,500	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	103,0	138	140	1900	0,0542	518	4	ZF 68IV		0,0578	Medium	2	1,294	1,294	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	103,0	138	140	1900	0,0542	518	4	ZF 85IV		0,0889	Medium	2	1,644	2,008	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	103,0	138	140	1900	0,0542	518	4	ZF 85IV		0,0838	Medium	2	2,493	2,493	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	118,0	158	160	2300	0,0513	490	4	ZF 68		0,0539	Medium	2	1,256	1,933	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	118,0	158	160	2300	0,0513	490	4	ZF 68		0,0518	Medium	2	2,480	2,783	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	118,0	158	160	2300	0,0513	490	4	ZF 68A		0,0578	Medium	2	1,216	1,216	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	118,0	158	160	2300	0,0513	490	4	ZF 68A		0,0539	Medium	2	1,563	2,037	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	118,0	158	160	2300	0,0513	490	4	ZF 85A		0,0838	Medium	2	2,500	2,500	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	118,0	158	160	2300	0,0513	490	4	ZF 68IV		0,0578	Medium	2	1,294	1,294	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	118,0	158	160	2300	0,0513	490	4	ZF 68IV		0,0539	Medium	2	1,560	1,992	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			
D5A TA	Medium	118,0	158	160	2300	0,0513	490	4	ZF 85IV		0,0838	Medium	2	2,493	2,493	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3			

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ENGINE	RATING	POWER (kW)	POWER (HP)	POWER (mHP)	SPEED (rpm)	P / N (kw / rpm)	TORQUE (Nm)	Cylinders	light alloy	GEARBOX cast iron	P / N (kw / rpm)	DUTY	RATING Volvo	RATIO minimum	maximum	NOTES		
																For deeper ratio, consult ZF		
D6-300	Special Light Duty	220,6	296	300	3300	0,0668	638	6	ZF 68		0,0677	Light	4	1,256	1,750			
D6-300	Special Light Duty	220,6	296	300	3300	0,0668	638	6	ZF 68A		0,0679	Light	4	1,216	2,037			
D6-300	Special Light Duty	220,6	296	300	3300	0,0668	638	6	ZF 68IV		0,0678	Light	4	1,294	1,992			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 220		0,0887	Light	4	1,000	2,478			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 220		0,0769	Light	4	3,000	3,000			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 85A		0,1043	Light	4	1,567	2,500			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 220A		0,0877	Light	4	1,235	2,040			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 220A		0,0789	Light	4	2,455	2,455			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 85IV		0,1043	Light	4	1,644	2,493			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 280IV		0,1162	Light	4	1,252	2,063			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 280IV		0,1085	Light	4	2,276	2,556			
D6-340	Special Light Duty	250,0	335	340	3400	0,0735	702	6	ZF 280IV		0,0914	Light	4	3,094	3,094			
D6-380	Special Light Duty	279,5	375	380	3500	0,0799	763	6	ZF 85A		0,1043	Light	4	1,567	2,500			
D6-380	Special Light Duty	279,5	375	380	3500	0,0799	763	6	ZF 85IV		0,1043	Light	4	1,644	2,493			
D6-380	Special Light Duty	279,5	375	380	3500	0,0799	763	6	ZF 220		0,0887	Light	4	1,000	2,478			
D6-380	Special Light Duty	279,5	375	380	3500	0,0799	763	6	ZF 220		0,0769	Light	4	3,000	3,000			
D6-380	Special Light Duty	279,5	375	380	3500	0,0799	763	6	ZF 220A		0,0877	Light	4	1,235	2,040			
D6-380	Special Light Duty	279,5	375	380	3500	0,0799	763	6	ZF 220A		0,0789	Light	4	2,455	2,455			
D6-440	Pleasure	323,6	434	440	3700	0,0875	835	6	ZF 85A		0,1114	Pleasure	5	1,567	2,500			
D6-440	Pleasure	323,6	434	440	3700	0,0875	835	6	ZF 85IV		0,1114	Pleasure	5	1,644	2,493			
D6-440	Pleasure	323,6	434	440	3700	0,0875	835	6	ZF 220		0,0985	Pleasure	5	1,000	2,478			
D6-440	Pleasure	323,6	434	440	3700	0,0875	835	6	ZF 220		0,0855	Pleasure	5	3,000	3,000			
D6-440	Pleasure	323,6	434	440	3700	0,0875	835	6	ZF 220A		0,0932	Pleasure	5	1,235	2,040			
D6-440	Pleasure	323,6	434	440	3700	0,0875	835	6	ZF 220A		0,0855	Pleasure	5	2,455	2,455			
D6-480	Pleasure	353,0	473	480	3700	0,0954	911	6	ZF 85A		0,1114	Pleasure	5	1,567	2,500			
D6-480	Pleasure	353,0	473	480	3700	0,0954	911	6	ZF 85IV		0,1114	Pleasure	5	1,644	2,493			
D6-480	Pleasure	353,0	473	480	3700	0,0954	911	6	ZF 220		0,0985	Pleasure	5	1,000	2,478			
D6-480	Pleasure	353,0	473	480	3700	0,0954	911	6	ZF 220		0,0855	Pleasure	5	3,000	3,000			
D6-480	Pleasure	353,0	473	480	3700	0,0954	911	6	ZF 220A		0,0855	Pleasure	5	2,455	2,455			
D6-480	Pleasure	353,0	473	480	3700	0,0954	911	6	ZF 220A		0,0932	Pleasure	5	1,235	2,040			
D6-480	Special Light Duty	353,0	473	480	3700	0,0954	911	6	ZF 280-1		0,0855	Light	5	0,814	2,000			
D6-480	Special Light Duty	353,0	473	480	3700	0,0954	911	6	ZF 280-1		0,0855	Light	5	2,478	2,478			
D6-480	Special Light Duty	353,0	473	480	3700	0,0954	911	6	ZF 280-1		0,0855	Light	5	3,000	3,000			
D7A TA	Continuous	130,0	174	177	1900	0,0684	653	6	ZF 220			Heavy	1	1,000	2,478	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7A TA	Continuous	130,0	174	177	1900	0,0684	653	6	ZF 85A			Heavy	1	1,567	2,500	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7A TA	Continuous	130,0	174	177	1900	0,0684	653	6	ZF 85IV			Heavy	1	1,644	2,493	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7A TA	Continuous	148,0	198	201	2300	0,0643	615	6	ZF 220			Heavy	1	1,000	2,478	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7A TA	Continuous	148,0	198	201	2300	0,0643	615	6	ZF 85A			Heavy	1	1,567	2,500	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7A TA	Continuous	148,0	198	201	2300	0,0643	615	6	ZF 85IV			Heavy	1	1,644	2,493	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7A TA	Medium	153,0	205	208	1900	0,0805	769	6	ZF 280-1			Medium	2	0,814	3,000	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	153,0	205	208	1900	0,0805	769	6	ZF 85A			Medium	2	1,567	2,500	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	153,0	205	208	1900	0,0805	769	6	ZF 280-1A			Medium	2	1,118	2,476	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	153,0	205	208	1900	0,0805	769	6	ZF 85IV			Medium	2	1,644	2,493	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	153,0	205	208	1900	0,0805	769	6	ZF 280IV			Medium	2	1,252	2,556	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	174,0	233	237	2300	0,0757	722	6	ZF 280-1			Medium	2	0,814	3,000	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	174,0	233	237	2300	0,0757	722	6	ZF 280-1A			Medium	2	1,118	2,476	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	174,0	233	237	2300	0,0757	722	6	ZF 85A			Medium	2	1,567	2,500	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	174,0	233	237	2300	0,0757	722	6	ZF 85IV			Medium	2	1,644	2,493	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7A TA	Medium	174,0	233	237	2300	0,0757	722	6	ZF 280IV			Medium	2	1,252	2,556	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Continuous	146,0	196	199	1900	0,0768	734	6	ZF 280-1			Heavy	1	0,814	3,000	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7C TA	Continuous	146,0	196	199	1900	0,0768	734	6	ZF 85A			Heavy	1	1,567	2,500	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7C TA	Continuous	146,0	196	199	1900	0,0768	734	6	ZF 85IV			Heavy	1	1,644	2,493	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7C TA	Continuous	166,0	223	226	2300	0,0722	689	6	ZF 280-1			Heavy	1	0,814	3,000	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7C TA	Continuous	166,0	223	226	2300	0,0722	689	6	ZF 85A			Heavy	1	1,567	2,500	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7C TA	Continuous	166,0	223	226	2300	0,0722	689	6	ZF 85IV			Heavy	1	1,644	2,493	VP heavy duty for <250 kW is 3000 hours; SAE 3		
D7C TA	Medium	169,0	227	230	1900	0,0889	849	6	ZF 280-1			Medium	2	0,814	2,000	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Medium	169,0	227	230	1900	0,0889	849	6	ZF 286			Medium	2	2,269	2,917	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Medium	169,0	227	230	1900	0,0889	849	6	ZF 280-1A			Medium	2	1,118	2,000	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Medium	169,0	227	230	1900	0,0889	849	6	ZF 286A			Medium	2	2,208	2,500	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Medium	169,0	227	230	1900	0,0889	849	6	ZF 280IV			Medium	2	1,252	2,063	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Medium	169,0	227	230	1900	0,0889	849	6	ZF 286IV			Medium	2	2,322	2,539	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Medium	195,0	261	265	2300	0,0848	810	6	ZF 280-1			Medium	2	0,814	2,478	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Medium	195,0	261	265	2300	0,0848	810	6	ZF 280-1A			Medium	2	1,118	2,476	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		
D7C TA	Medium	195,0	261	265	2300	0,0848	810	6	ZF 280IV			Medium	2	1,252	2,556	VP Medium duty for <250 kW is 2000 hours, but high load profile; SAE 3		

Volvo Penta										ZF Padova								21 November 2022			
ENGINE	RATING	POWER (kW)	POWER (HP)	POWER (mHP)	SPEED (rpm)	P / N (kw / rpm)	TORQUE (Nm)	Cylinders	GEARBOX		DUTY	RATING Volvo	RATIO		NOTES						
									light alloy	cast iron			P / N (kw / rpm)	minimum		maximum					
																For deeper ratio, consult ZF					
D8-450	Light	331,0	444	450	2700	0,1226	1171	6	ZF 286			Light	3	0,923	2,269	SAE 2					
D8-450	Light	331,0	444	450	2700	0,1226	1171	6	ZF 286A			Light	3	1,200	2,208	SAE 2					
D8-450	Light	331,0	444	450	2700	0,1226	1171	6	ZF 286IV			Light	3	1,266	2,322	SAE 2					
D8-450	Medium	331,0	444	450	2700	0,1226	1171	6	ZF 305-3			Medium	3	0,884	2,250	SAE 2					
D8-450	Medium	331,0	444	450	2700	0,1226	1171	6	ZF 305-3A			Medium	3	1,200	2,423	SAE 2					
D8-450	Medium	331,0	444	450	2700	0,1226	1171	6	ZF 325IV			Medium	3	1,216	2,417	SAE 2					
D8-450	Medium	331,0	444	450	2700	0,1226	1171	6		ZF W340		Medium	3	2,938	5,227	SAE 2					
D8-510	Special Light Duty	375,0	503	510	2850	0,1316	1257	6	ZF 286			Light	4	0,923	2,481	SAE 2					
D8-510	Special Light Duty	375,0	503	510	2850	0,1316	1257	6	ZF 305-3			Light	4	0,884	2,917	SAE 2					
D8-510	Special Light Duty	375,0	503	510	2850	0,1316	1257	6	ZF 286A			Light	4	1,200	2,391	SAE 2					
D8-510	Special Light Duty	375,0	503	510	2850	0,1316	1257	6	ZF 305-3A			Light	4	1,200	2,423	SAE 2					
D8-510	Special Light Duty	375,0	503	510	2850	0,1316	1257	6	ZF 286IV			Light	4	1,266	2,539	SAE 2					
D8-510	Special Light Duty	375,0	503	510	2850	0,1316	1257	6	ZF 286			Light	4	0,923	2,481	SAE 2					
D8-550	Special Light Duty	405,0	543	551	2900	0,1397	1334	6	ZF 286			Light	4	0,923	2,269	SAE 2					
D8-550	Special Light Duty	405,0	543	551	2900	0,1397	1334	6	ZF 305-3			Light	4	0,884	2,917	SAE 2					
D8-550	Special Light Duty	405,0	543	551	2900	0,1397	1334	6	ZF 286A			Light	4	1,200	2,208	SAE 2					
D8-550	Special Light Duty	405,0	543	551	2900	0,1397	1334	6	ZF 305-3A			Light	4	1,200	2,423	SAE 2					
D8-550	Special Light Duty	405,0	543	551	2900	0,1397	1334	6	ZF 286IV			Light	4	1,266	2,322	SAE 2					
D8-600	Pleasure	441,0	591	600	3000	0,1470	1404	6	ZF 286			Pleasure	5	0,923	2,481	SAE 2					
D8-600	Pleasure	441,0	591	600	3000	0,1470	1404	6	ZF 305-3			Pleasure	5	0,884	2,917	SAE 2					
D8-600	Pleasure	441,0	591	600	3000	0,1470	1404	6	ZF 286A			Pleasure	5	1,200	2,391	SAE 2					
D8-600	Pleasure	441,0	591	600	3000	0,1470	1404	6	ZF 305-3A			Pleasure	5	1,200	2,423	SAE 2					
D8-600	Pleasure	441,0	591	600	3000	0,1470	1404	6	ZF 286IV			Pleasure	5	1,266	2,539	SAE 2					
D8 MH	Continuous	154,5	207	210	1800	0,0858	820	6	ZF 286			Heavy	1	0,923	2,971	SAE 1					
D8 MH	Continuous	154,5	207	210	1800	0,0858	820	6	ZF 286 A			Heavy	1	1,200	2,500	SAE 1					
D8 MH	Continuous	154,5	207	210	2200	0,0702	671	6	ZF 286			Heavy	1	0,923	2,971	SAE 1					
D8 MH	Continuous	154,5	207	210	2200	0,0702	671	6	ZF 286 A			Heavy	1	1,200	2,500	SAE 1					
D8 MH	Continuous	169,0	227	230	1800	0,0939	897	6	ZF 286			Heavy	1	0,923	2,248	SAE 1					
D8 MH	Continuous	169,0	227	230	1800	0,0939	897	6	ZF 286 A			Heavy	1	1,200	1,962	SAE 1					
D8 MH	Continuous	169,0	227	230	2200	0,0768	734	6	ZF 286			Heavy	1	0,923	2,917	SAE 1					
D8 MH	Continuous	169,0	227	230	2200	0,0768	734	6	ZF 286 A			Heavy	1	0,923	2,500	SAE 1					
D8 MH	Continuous	195,0	261	265	1800	0,1083	1035	6	ZF 305-3			Heavy	1	1,220	2,500	SAE 1					
D8 MH	Continuous	195,0	261	265	1800	0,1083	1035	6	ZF 305-3A			Heavy	1	1,200	2,423	SAE 1					
D8 MH	Continuous	195,0	261	265	1800	0,1083	1035	6		ZF W340		Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	195,0	261	265	2200	0,0886	846	6	ZF 286			Heavy	1	0,923	2,269	SAE 1					
D8 MH	Continuous	195,0	261	265	2200	0,0886	846	6	ZF 286 A			Heavy	1	0,923	1,962	SAE 1					
D8 MH	Continuous	195,0	261	265	2200	0,0886	846	6	ZF 305-3			Heavy	1	1,220	2,500	SAE 1					
D8 MH	Continuous	195,0	261	265	2200	0,0886	846	6	ZF 305-3A			Heavy	1	1,200	2,423	SAE 1					
D8 MH	Continuous	195,0	261	265	2200	0,0886	846	6		ZF W340		Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	220,5	296	300	1800	0,1225	1170	6	ZF 305-3			Heavy	1	1,220	1,968	SAE 1					
D8 MH	Continuous	220,5	296	300	1800	0,1225	1170	6	ZF 305-3A			Heavy	1	1,200	2,037	SAE 1					
D8 MH	Continuous	220,5	296	300	1800	0,1225	1170	6		ZF W340		Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	220,5	296	300	2200	0,1002	957	6	ZF 305-3			Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	220,5	296	300	2200	0,1002	957	6	ZF 305-3A			Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	220,5	296	300	2200	0,1002	957	6		ZF W340		Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	261,0	350	355	1800	0,1450	1385	6	ZF 325-1			Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	261,0	350	355	1800	0,1450	1385	6	ZF 325-1A			Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	261,0	350	355	1800	0,1450	1385	6		ZF W340		Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	261,0	350	355	2200	0,1186	1133	6	ZF 325-1			Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	261,0	350	355	2200	0,1186	1133	6	ZF 325-1A			Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	261,0	350	355	2200	0,1186	1133	6		ZF W340		Heavy	1	2,938	4,957	SAE 1					
D8 MH	Continuous	298,0	400	405	2100	0,1419	1355	6	ZF 325-1			Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	298,0	400	405	2100	0,1419	1355	6	ZF 325-1A			Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	298,0	400	405	2100	0,1419	1355	6		ZF W340		Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	298,0	400	405	2200	0,1355	1294	6	ZF 325-1			Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	298,0	400	405	2200	0,1355	1294	6	ZF 325-1A			Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	298,0	400	405	2200	0,1355	1294	6		ZF W340		Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	312,5	419	425	2100	0,1488	1421	6	ZF 305-3			Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	312,5	419	425	2100	0,1488	1421	6	ZF 305-3A			Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	312,5	419	425	2100	0,1488	1421	6		ZF W340		Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	312,5	419	425	2200	0,1420	1357	6	ZF 305-3			Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	312,5	419	425	2200	0,1420	1357	6	ZF 305-3A			Heavy	1	2,938	4,957	SAE 2					
D8 MH	Continuous	312,5	419	425	2200	0,1420	1357	6		ZF W340		Heavy	1	2,938	4,957	SAE 2					

Volvo Penta										ZF Padova								21 November 2022	
ENGINE	RATING	POWER (kW)	POWER (HP)	POWER (mHP)	SPEED (rpm)	P / N (kw / rpm)	TORQUE (Nm)	Cylinders	GEARBOX		DUTY	RATING Volvo	RATIO		NOTES				
									light alloy	cast iron			P / N (kw / rpm)	minimum		maximum			
															For deeper ratio, consult ZF				
D11-510	Light	375,0	503	510	2250	0,1667	1592	6	ZF 305-3			Light	3	0,884	2,250	SAE 2			
D11-510	Light	375,0	503	510	2250	0,1667	1592	6	ZF 325-1			Light	3	2,500	2,957	SAE 2			
D11-510	Light	375,0	503	510	2250	0,1667	1592	6	ZF 305-3 A			Light	3	1,200	2,179	SAE 2			
D11-510	Light	375,0	503	510	2250	0,1667	1592	6	ZF 325-1 A			Light	3	2,240	2,417	SAE 2			
D11-510	Light	375,0	503	510	2250	0,1667	1592	6	ZF 325IV			Light	3	1,216	2,417	SAE 2			
D11-510	Light	375,0	503	510	2250	0,1667	1592	6	ZF 400V			Light	3	1,125	2,480				
D11-625	Special Light Duty	460,0	617	626	2400	0,1917	1830	6	ZF 325-1			Light	4	1,000	2,500	SAE 2			
D11-625	Special Light Duty	460,0	617	626	2400	0,1917	1830	6	ZF 325-1 A			Light	4	1,216	2,417	SAE 2			
D11-625	Special Light Duty	460,0	617	626	2400	0,1917	1830	6	ZF 325IV			Light	4	1,216	2,417	SAE 2			
D11-625	Special Light Duty	460,0	617	626	2400	0,1917	1830	6	ZF 400V			Light	4	1,125	2,480	SAE 2			
D11-670	Pleasure	493,0	661	670	2450	0,2012	1922	6	ZF 305-3		0,2143	Pleasure	5	0,884	1,968	SAE 2			
D11-670	Pleasure	493,0	661	670	2450	0,2012	1922	6	ZF 325-1		0,2043	Pleasure	5	1,000	2,957	SAE 2			
D11-670	Pleasure	493,0	661	670	2450	0,2012	1922	6	ZF 305-3A		0,2192	Pleasure	5	1,200	2,037	SAE 2			
D11-670	Pleasure	493,0	661	670	2450	0,2012	1922	6	ZF 325-1A		0,2334	Pleasure	5	1,216	2,417	SAE 2			
D11-670	Pleasure	493,0	661	670	2450	0,2012	1922	6	ZF 325IV		0,2334	Pleasure	5	1,216	2,417	SAE 2			
D11-670	Pleasure	493,0	661	670	2450	0,2012	1922	6	ZF 400V		0,3196	Pleasure	5	1,125	2,480				
D11-725	Pleasure	533,0	715	725	2500	0,2132	2036	6	ZF 305-3		0,2143	Pleasure	5	0,884	1,968	SAE 2			
D11-725	Pleasure	533,0	715	725	2500	0,2132	2036	6	ZF 325-1		0,2334	Pleasure	5	1,000	2,500	SAE 2			
D11-725	Pleasure	533,0	715	725	2500	0,2132	2036	6	ZF 305-3A		0,2192	Pleasure	5	1,200	2,037	SAE 2			
D11-725	Pleasure	533,0	715	725	2500	0,2132	2036	6	ZF 325-1A		0,2334	Pleasure	5	1,216	2,417	SAE 2			
D11-725	Pleasure	533,0	715	725	2500	0,2132	2036	6	ZF 325IV		0,2334	Pleasure	5	1,216	2,417	SAE 2			
D11-725	Pleasure	533,0	715	725	2500	0,2132	2036	6	ZF 400V		0,3196	Pleasure	5	1,125	2,480				
D13 MH	Continuous	214,0	287	291	1800	0,1189	1135	6	ZF 325-1		0,1326	Heavy	1	1,000	2,957	VP heavy duty for >250 kW is 4000 hours; SAE 1;			
D13 MH	Continuous	214,0	287	291	1800	0,1189	1135	6	ZF 325-1A		0,1450	Heavy	1	1,216	2,417	VP heavy duty for >250 kW is 4000 hours; SAE 1;			
D13 MH	Continuous	214,0	287	291	1800	0,1189	1135	6	ZF 400 IV		0,1699	Heavy	1	1,441	2,458	VP heavy duty for >250 kW is 4000 hours; SAE 1;			
D13 MH	Continuous	214,0	287	291	1800	0,1189	1135	6	ZF 400V		0,1802	Heavy	1	1,125	2,480	VP heavy duty for >250 kW is 4000 hours			
D13 MH	Continuous	214,0	287	291	1800	0,1189	1135	6		ZF W340	0,1450	Heavy	1	2,938	5,227	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	294,0	394	400	1800	0,1633	1560	6	ZF 400		0,1802	Heavy	1	0,854	2,957	VP heavy duty for >250 kW is 4000 hours; SAE 1;			
D13 MH	Continuous	294,0	394	400	1800	0,1633	1560	6	ZF 400A		0,1699	Heavy	1	1,441	2,458	VP heavy duty for >250 kW is 4000 hours; SAE 1;			
D13 MH	Continuous	294,0	394	400	1800	0,1633	1560	6	ZF 400 IV		0,1699	Heavy	1	1,441	2,458	VP heavy duty for >250 kW is 4000 hours; SAE 1;			
D13 MH	Continuous	294,0	394	400	1800	0,1633	1560	6	ZF 400V		0,1802	Heavy	1	1,125	2,480	VP heavy duty for >250 kW is 4000 hours			
D13 MH	Continuous	294,0	394	400	1800	0,1633	1560	6		ZF W340	0,1657	Heavy	1	2,938	4,957	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	294,0	394	400	1800	0,1633	1560	6		ZF W350-1	0,1781	Heavy	1	5,955	6,409	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	331,0	444	450	1800	0,1839	1756	6	ZF 500			Heavy	1	0,925	2,917	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	331,0	444	450	1800	0,1839	1756	6	ZF 550			Heavy	1	3,042	3,042	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	331,0	444	450	1800	0,1839	1756	6	ZF 500-1A			Heavy	1	1,216	2,609	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	331,0	444	450	1800	0,1839	1756	6	ZF 550A			Heavy	1	2,960	2,960	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	331,0	444	450	1800	0,1839	1756	6	ZF 550V			Heavy	1	1,525	2,960	VP heavy duty for >250 kW is 4000 hours			
D13 MH	Continuous	331,0	444	450	1800	0,1839	1756	6		ZF W350-1		Heavy	1	3,026	5,955	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	331,0	444	450	1800	0,1839	1756	6		ZF W650		Heavy	1	6,120	6,417	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	368,0	493	500	1800	0,2044	1952	6	ZF 500			Heavy	1	1,125	2,480	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	368,0	493	500	1800	0,2044	1952	6	ZF 665			Heavy	1	2,593	3,042	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	368,0	493	500	1800	0,2044	1952	6	ZF 500-1A			Heavy	1	1,216	2,478	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	368,0	493	500	1800	0,2044	1952	6	ZF 665A			Heavy	1	1,525	2,960	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	368,0	493	500	1800	0,2044	1952	6	ZF 665V			Heavy	1	1,525	2,960	VP heavy duty for >250 kW is 4000 hours			
D13 MH	Continuous	368,0	493	500	1800	0,2044	1952	6		ZF W350-1		Heavy	1	3,026	5,955	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Continuous	368,0	493	500	1800	0,2044	1952	6		ZF W650		Heavy	1	6,120	6,417	VP heavy duty for >250 kW is 4000 hours; SAE 1			
D13 MH	Medium	404,5	542	550	1900	0,2129	2033	6	ZF 400		0,213	Medium	2	0,854	2,214	VP Medium duty for >250 kW is 3000 hours; SAE 1;			
D13 MH	Medium	404,5	542	550	1900	0,2129	2033	6	ZF 400A		0,213	Medium	2	1,441	1,964	VP Medium duty for >250 kW is 3000 hours; SAE 1;			
D13 MH	Medium	404,5	542	550	1900	0,2129	2033	6	ZF 400 IV		0,213	Medium	2	1,441	1,964	VP Medium duty for >250 kW is 3000 hours; SAE 1;			
D13 MH	Medium	404,5	542	550	1900	0,2129	2033	6	ZF 400 V		0,213	Medium	2	1,125	2,480	VP Medium duty for >250 kW is 3000 hours;			
D13 MH	Medium	404,5	542	550	1900	0,2129	2033	6		ZF W350-1	0,2379	Medium	2	3,026	5,955	VP Medium duty for >250 kW is 3000 hours; R6,409 need special approval			
D13 MH	Medium	441,0	591	600	1900	0,2321	2217	6	ZF 500		0,2486	Medium	2	1,125	2,185	VP Medium duty for >250 kW is 3000 hours; SAE 1			
D13 MH	Medium	441,0	591	600	1900	0,2321	2217	6	ZF 550		0,2347	Medium	2	0,936	3,042	VP Medium duty for >250 kW is 3000 hours; SAE 1			
D13 MH	Medium	441,0	591	600	1900	0,2321	2217	6	ZF 500-1A		0,2486	Medium	2	1,216	2,192	VP Medium duty for >250 kW is 3000 hours; SAE 1			
D13 MH	Medium	441,0	591	600	1900	0,2321	2217	6	ZF 550A		0,2346	Medium	2	2,517	2,960	VP Medium duty for >250 kW is 3000 hours; SAE 1			
D13 MH	Medium	441,0	591	600	1900	0,2321	2217	6	ZF 500-1V		0,2486	Medium	2	1,216	2,200	VP Medium duty for >250 kW is 3000 hours; SAE 1			
D13 MH	Medium	441,0	591	600	1900	0,2321	2217	6	ZF 510V		0,2486	Medium	2	1,125	2,222	VP Medium duty for >250 kW is 3000 hours;			
D13 MH	Medium	441,0	591	600	1900	0,2321	2217	6		ZF W350-1	0,2379	Medium	2	3,026	5,955	VP Medium duty for >250 kW is 3000 hours; SAE 1			

Volvo Penta											ZF Padova								21 November 2022			
ENGINE	RATING	POWER (kW)	POWER (HP)	POWER (mHP)	SPEED (rpm)	P / N (kw / rpm)	TORQUE (Nm)	Cylinders	GEARBOX		DUTY	RATING Volvo	RATIO		NOTES							
									cast iron	P / N (kw / rpm)			minimum	maximum								
															For deeper ratio, consult ZF							
D13 700	Medium	515,0	691	700	2250	0,2289	2186	6	ZF 500		0,2279	Medium	2	0,925	2,625	SAE 1						
D13 700	Medium	515,0	691	700	2250	0,2289	2186	6	ZF 550		0,2347	Medium	2	1,111	3,042	SAE 1						
D13 700	Medium	515,0	691	700	2250	0,2289	2186	6	ZF 500-1A		0,2486	Medium	2	1,216	2,192	SAE 1						
D13 700	Medium	515,0	691	700	2250	0,2289	2186	6	ZF 510-1A		0,2486	Medium	2	2,480	2,480	SAE 1						
D13 700	Medium	515,0	691	700	2250	0,2289	2186	6	ZF 550-1 A		0,2346	Medium	2	2,960	2,960	SAE 1						
D13 700	Medium	515,0	691	700	2250	0,2289	2186	6	ZF 500-1IV		0,2279	Medium	2	1,216	2,478	SAE 1						
D13 700	Medium	515,0	691	700	2250	0,2289	2186	6	ZF 510V		0,2486	Medium	2	1,125	2,222							
D13 700	Medium	515,0	691	700	2250	0,2289	2186	6	ZF W350-1		0,2379	Medium	2	3,026	5,955	SAE 1						
D13-800	Pleasure	588,0	789	800	2300	0,2557	2441	6	ZF 325-1		0,2594	Pleasure	5	1,167	2,033	SAE 1						
D13-800	Pleasure	588,0	789	800	2300	0,2557	2441	6	ZF 400		0,2557	Pleasure	5	2,214	2,957	SAE 1						
D13-800	Pleasure	588,0	789	800	2300	0,2557	2441	6	ZF 325-1 A		0,2595	Pleasure	5	1,216	2,240	SAE 1						
D13-800	Pleasure	588,0	789	800	2300	0,2557	2441	6	ZF 400 A		0,2717	Pleasure	5	2,458	2,458	SAE 1						
D13-800	Pleasure	588,0	789	800	2300	0,2557	2441	6	ZF 325 IV		0,2595	Pleasure	5	1,216	2,037	SAE 1						
D13-800	Pleasure	588,0	789	800	2300	0,2557	2441	6	ZF 400 IV		0,2717	Pleasure	5	2,192	2,458	SAE 1						
D13-800	Pleasure	588,0	789	800	2300	0,2557	2441	6	ZF 400 V		0,3196	Pleasure	5	1,125	2,480							
D13-800	Pleasure	588,0	789	800	2300	0,2557	2441	6	ZF W340		0,2557	Pleasure	5	2,938	4,522	SAE 1						
D13-800	Light	588,0	789	800	2300	0,2557	2441	6	ZF 400			Light	3	0,854	2,600	SAE 1						
D13-800	Light	588,0	789	800	2300	0,2557	2441	6	ZF 400 A			Light	3	1,441	2,192	SAE 1						
D13-800	Light	588,0	789	800	2300	0,2557	2441	6	ZF 400 IV			Light	3	1,441	2,192	SAE 1						
D13-800	Light	588,0	789	800	2300	0,2557	2441	6	ZF 400 V			Light	3	1,125	2,480							
D13-800	Light	588,0	789	800	2300	0,2557	2441	6	ZF W340		0,2557	Light	3	2,938	4,522	SAE 1						
D13-900	Pleasure	662,0	888	900	2300	0,2878	2749	6	ZF 400		0,2917	Pleasure	5	0,854	2,600	SAE 1						
D13-900	Pleasure	662,0	888	900	2300	0,2878	2749	6	ZF 400 A		0,3064	Pleasure	5	1,441	2,192	SAE 1						
D13-900	Pleasure	662,0	888	900	2300	0,2878	2749	6	ZF 400 IV		0,3064	Pleasure	5	1,441	2,192	SAE 1						
D13-900	Pleasure	662,0	888	900	2300	0,2878	2749	6	ZF 400V		0,3196	Pleasure	5	1,125	2,480							
D13-900	Special Light Duty	662,0	888	900	2300	0,2878	2749	6	ZF 400		0,2917	Pleasure	4	0,854	2,214	SAE 1						
D13-900	Special Light Duty	662,0	888	900	2300	0,2878	2749	6	ZF 400 A		0,2878	Pleasure	4	1,441	2,192	SAE 1						
D13-900	Special Light Duty	662,0	888	900	2300	0,2878	2749	6	ZF 400 IV		0,2878	Pleasure	4	1,441	2,192	SAE 1						
D13-900	Special Light Duty	662,0	888	900	2300	0,2878	2749	6	ZF 400V		0,2917	Pleasure	4	1,125	2,480							
D13-1000	Pleasure	735,0	986	1000	2400	0,3063	2925	6	ZF 400		0,3196	Pleasure	5	0,854	2,214	SAE 1						
D13-1000	Pleasure	735,0	986	1000	2400	0,3063	2925	6	ZF 400 A		0,3196	Pleasure	5	1,441	1,964	SAE 1						
D13-1000	Pleasure	735,0	986	1000	2400	0,3063	2925	6	ZF 500-1 A		0,3242	Pleasure	5	2,478	2,478	SAE 1						
D13-1000	Pleasure	735,0	986	1000	2400	0,3063	2925	6	ZF 400 IV		0,3196	Pleasure	5	1,441	1,964	SAE 1						
D13-1000	Pleasure	735,0	986	1000	2400	0,3063	2925	6	ZF 400 IV		0,3064	Pleasure	5	2,192	2,192	SAE 1						
D13-1000	Pleasure	735,0	986	1000	2400	0,3063	2925	6	ZF 500 IV		0,3518	Pleasure	5	2,478	2,478	SAE 1						
D13-1000	Pleasure	735,0	986	1000	2400	0,3063	2925	6	ZF 400 V		0,3196	Pleasure	5	1,125	2,480							
D16 MH	Continuous	441,0	591	600	1800	0,2450	2340	6	ZF 550		0,2492	Heavy	1	0,935	2,233	VP heavy duty for >250 kW is 4000 hours; SAE 1						
D16 MH	Continuous	441,0	591	600	1800	0,2450	2340	6	ZF 665		0,2692	Heavy	1	2,233	2,593	VP heavy duty for >250 kW is 4000 hours; SAE 1						
D16 MH	Continuous	441,0	591	600	1800	0,2450	2340	6	ZF 550A		0,2492	Heavy	1	1,525	2,448	VP heavy duty for >250 kW is 4000 hours; SAE 1						
D16 MH	Continuous	441,0	591	600	1800	0,2450	2340	6	ZF 665A		0,2652	Heavy	1	2,517	2,517	VP heavy duty for >250 kW is 4000 hours; SAE 1						
D16 MH	Continuous	441,0	591	600	1800	0,2450	2340	6	ZF 550V		0,2492	Heavy	1	1,525	2,448	VP heavy duty for >250 kW is 4000 hours						
D16 MH	Continuous	441,0	591	600	1800	0,2450	2340	6	ZF 665V		0,2652	Heavy	1	2,517	2,517	VP heavy duty for >250 kW is 4000 hours						
D16 MH	Continuous	441,0	591	600	1800	0,2450	2340	6	ZF W650		0,2487	Heavy	1	3,605	5,593	VP heavy duty for >250 kW is 4000 hours; SAE 1						
D16 MH	Continuous	478,0	641	650	1800	0,2656	2536	6	ZF 665		0,2692	Heavy	1	1,111	2,593	VP heavy duty for >250 kW is 4000 hours; SAE 1						
D16 MH	Continuous	478,0	641	650	1800	0,2656	2536	6	ZF 665A		0,2652	Heavy	1	1,525	2,517	VP heavy duty for >250 kW is 4000 hours; SAE 1						
D16 MH	Continuous	478,0	641	650	1800	0,2656	2536	6	ZF 665V		0,2652	Heavy	1	1,525	2,517	VP heavy duty for >250 kW is 4000 hours						
D16 MH	Continuous	551,5	740	750	1900	0,2903	2772	6	ZF 665		0,29	Heavy	1	1,111	2,000	VP Medium duty for >250 kW is 3000 hours; SAE 1						
D16 MH	Continuous	551,5	740	750	1900	0,2903	2772	6	ZF 665A		0,29	Heavy	1	1,525	1,971	VP Medium duty for >250 kW is 3000 hours; SAE 1						
D16 MH	Continuous	551,5	740	750	1900	0,2903	2772	6	ZF 665V		0,29	Heavy	1	1,525	1,971	VP Medium duty for >250 kW is 3000 hours						
D16 MH	Medium	588,0	789	800	1900	0,3095	2955	6	ZF 665		0,3107	Medium	2	1,111	2,000	SAE 1						
D16 MH	Medium	588,0	789	800	1900	0,3095	2955	6	ZF 665 A		0,3107	Medium	2	1,525	1,971	SAE 1						
D16 MH	Medium	588,0	789	800	1900	0,3095	2955	6	ZF 665 V		0,3107	Medium	2	1,525	1,971	SAE 1						
D16 MH	Medium	625,0	838	850	1900	0,3289	3141	6				Medium	2			SAE 1 FN Powe Factor						
Notes																						