

## 謝辞 Acknowledgement

データを提供いただいたすべての皆様に厚くお礼申し上げます。

I would like to thank everyone who have contributed the data of their valuable collection.

メーカーコード Manufacturer Code	シリアルナンバー Serial # 1st digit is anonymous	型名 Designation	レンズ構成 Lens System 1:ZF41TypeI 2:ZF41TypeII 3:ZF41/1	グリース記号 Lubricant Marks	シリアルNo位置 Serial # Location	その他マーキング等 Other Markings	刻印タイプ Markings Type	
bmj	12	59316	ZF	1	K.F.	center	1,5x1,3° (K)	
		59770	ZF	1	K.F.	center		
		60318	ZF41	1		center		
		60567	ZF41	1		center		
		60610	ZF41	1		center		
		61049	ZF41	1	○	center		
		63370	ZF41	1	○	center		
		63402	ZF41	1	Blue○	center		
		63500	ZF41	1	Blue○	center		
		63555	ZF41	1	Blue○	center		
		63665	ZF41	1	Blue○			
		65180	ZF41	1	○+		center	
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>bmj A</b></p> </div> <div style="text-align: center;"> <p><b>bmj B</b></p> </div> <div style="text-align: center;"> <p><b>bmj C</b></p> </div> </div>							
	cag	29		ZF40-41/1	3			27-1079J2 (rain shield)
				ZF40-41/1	3	+		
				ZF40-41/1	3	+		
				ZF40-41/1	3	+		
			2110	ZF40-41/1	3	+	ocular	27-1079J2 (rain shield)
2161			ZF40-41/1	3	+	ocular		
2209			ZF40-41/1	3	+	ocular		
2390			ZF40-41/1	3	+	ocular		
2395			ZF40-41/1	3	+	ocular		
2459			ZF40-41/1	3	+	ocular		
2472			ZF40-41/1	3	+	ocular		
2580			ZF40-41/1	3				
2680			ZF40-41/1	3	+	ocular		
2881			ZF40-41/1	3	+			
3020			ZF40-41/1	3	+	ocular		
3110			ZF40-41/1	3	+			
3360			ZF40-41/1	3			27-1079J2 (rain shield)	
3586			ZF40-41/1	3	+	ocular		
4040			ZF40-41/1	3	+	ocular		
4298			ZF40-41/1	3	+	ocular		
4853			ZF40-41/1	3	+	ocular		
4880			ZF40-41/1	3	+	ocular		
4890			ZF40-41/1	3	+	ocular	27-1079J2 (rain shield)	
5400			ZF40-41/1	3	Blue+	ocular		
5697	ZF40-41/1	3	+					
5708	ZF40-41/1	3	+	ocular				
5920	ZF40-41/1	3	+	ocular				
5950	ZF40-41/1	3	+	ocular				
6026	ZF40-41/1	3	Blue+					

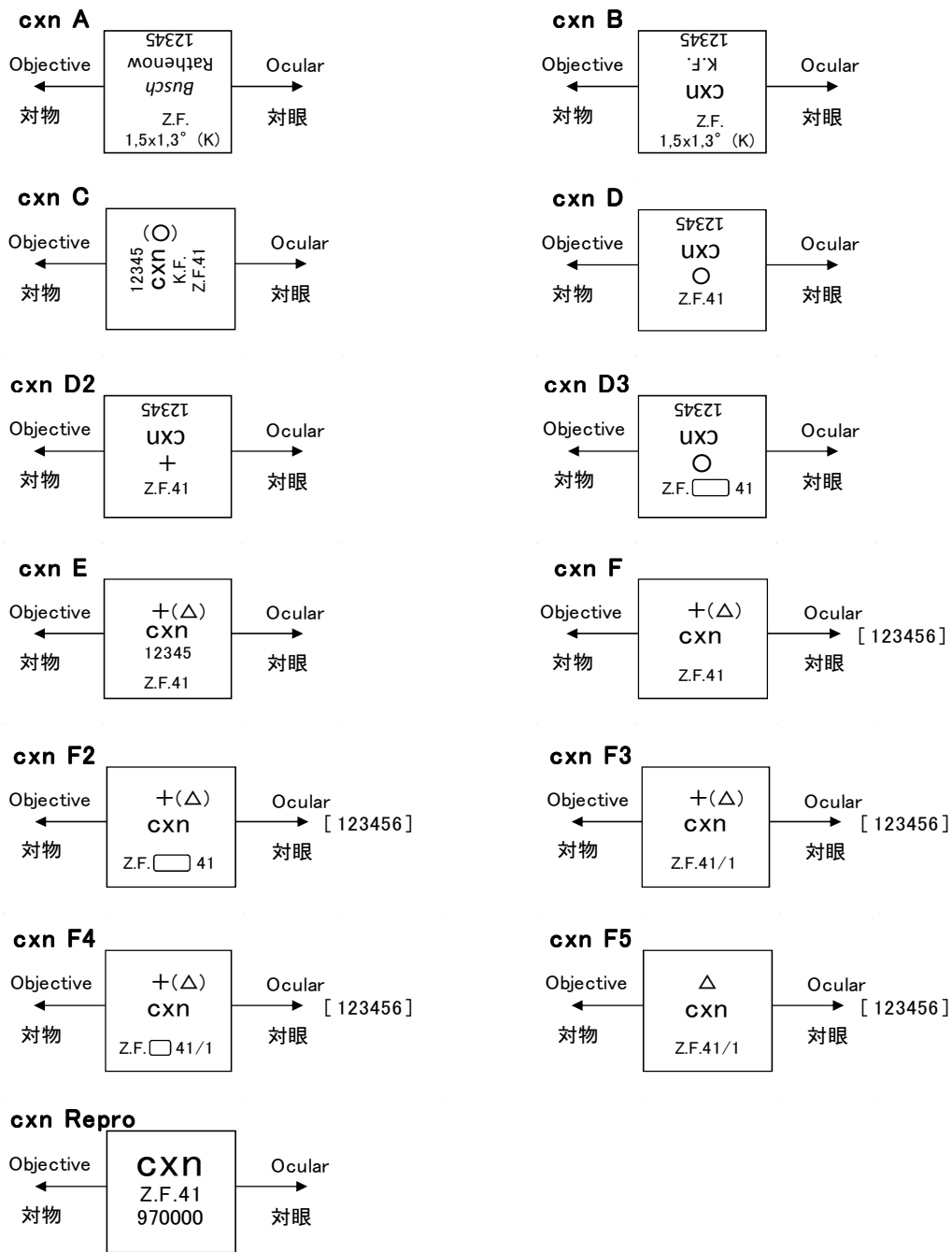
メーカーコード Manufacturer Code	シリアル ナンバー Serial # 1st digit is anonymous	型名 Designation	レンズ構成 Lens System 1:ZF41TypeI 2:ZF41TypeII 3:ZF41/1	グリース記号 Lubricant Marks	シリアルNo 位置 Serial # Location	その他マーキング等 Other Markings	刻印タイプ Markings Type
		<p><b>cag A</b></p>					
clb	28						
		ZF41	1	+	(ocular)		clb A
	51607	ZF41	1	K.F.	center		clb A
	52120	ZF41	1		center		clb D
	56391	ZF41	1		center		clb B
	56560	ZF41	1		center		clb B
	56697	ZF41	1		center		clb B
	56985	ZF41	1		center	for duv42	clb B
	58231	ZF41	1	+	center		clb B
	58380	ZF41	1	+	center		clb B
	58400	ZF41	1	+	center		clb B
	59537	ZF41	1	+	ocular		clb C
	59580	ZF41	1	+	ocular		clb C
	59835	ZF41	1	+	ocular		clb C
	59980	ZF41	1	+	ocular		clb C
	60000	ZF41	1	+	ocular		clb C
	60441	ZF41	1	Blue+	ocular		clb C
	60449	ZF41	1	+	ocular		clb C
	60680	ZF41	1	+	ocular		clb C
	60842	ZF41	1	+	ocular		clb C
	61050	ZF41	1	+	ocular		clb C
	61100	ZF41	1	+			clb B
	61538	ZF41	1		center		clb B
	61760	ZF41	1	+	ocular		clb C
	66082	ZF41	1		center		clb B
		ZF41/1	3	+△	(ocular)		clb C2
	71849	ZF41/1	3	+△			clb C2
		<p><b>clb A</b></p> <p><b>clb B</b></p> <p><b>clb C</b></p> <p><b>clb C2</b></p> <p><b>clb D</b></p>					
cxn	227						
		ZF	1			Busch Rathenow/1,5x1,3°(K)	cxn A
	43313	ZF	1	Blue○	center	Busch Rathenow/1,5x1,3°(K)	cxn A
	43770	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	43770	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	51900	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	52170	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	52230	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	53730	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	54098	ZF	1	K.F.△	center	1,5x1,3°(K)	cxn B
	54180	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	54486	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	54525	ZF	1	K.F.○	center	1,5x1,3°(K)	cxn B
	54700	ZF	1	K.F.○	center	1,5x1,3°(K)	cxn B

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	54828	ZF	1	K.F.○	center	1,5x1,3°(K)	cxn B
	55017	ZF	1	K.F.	center	1,5x1,3°(K)	cxn B
	56369	ZF41	1	K.F.	center		cxn C
	56380	ZF41	1	K.F.	center		cxn C
	57360	ZF41	1	K.F.	center		cxn C
	58193	ZF41	1	K.F.	center		cxn C
	58309	ZF41	1	K.F.	center		cxn C
	59390	ZF41	1	K.F.	center		cxn C
	59651	ZF40*-41	2	+△	ocular		cxn F2
	60380	ZF41	1	K.F.	center		cxn C
	60445	ZF41	1	K.F.○	center		cxn C
	69290	ZF41	1	K.F.	center		cxn C
	69306	ZF41	1	K.F.	center		cxn C
	69370	ZF41	1	K.F.	center		cxn C
		ZF41	1				
		ZF41	1	○			
	69479	ZF41	1	Blue○	center		cxn D
	69570	ZF41	1	Blue○	center		cxn D
	29908	ZF41	1	Blue○	center		cxn D
	69966	ZF41	1	Blue○	center		cxn D
	70498	ZF41	1	Blue○	center		cxn D
	71080	ZF41	1	○	center		cxn D
	71370	ZF41	1	○	center		cxn D
	71430	ZF41	1	Blue○	center		cxn D
	71610	ZF41	1	○	center		cxn D
	72094	ZF41	1	○	center		cxn D
	72384	ZF41	1	○	center		cxn D
	72670	ZF41	1	Blue○	center		cxn D
	76030	ZF41	1	Blue○	center		cxn D
	77268	ZF41	1	Blue○	center		cxn D
	77430	ZF41	1	○	center		cxn D
	78131	ZF41	1	Blue○	center		cxn D
	78521	ZF41	1	Blue○	center		cxn D
	78730	ZF41	1	○	center		cxn D
	78990	ZF41	1	○	center		cxn D
	79000	ZF41	1	○	center		cxn D
	79100	ZF41	1	○	center		cxn D
	79172	ZF41	1	Blue○	center		cxn D
	81290	ZF41	1		center		cxn D
	82847	ZF41	1	Blue○	center		cxn D
	83351	ZF41	1	○			
	83420	ZF41	1	○	center		cxn D
	83476	ZF41	1	○			
	83670	ZF41	1	○	center		cxn D
	86063	ZF41	1	White○	center		cxn D
	86635	ZF41	1		center		cxn D
	87340	ZF41	1	Blue○	center		cxn D
	87870	ZF41	1	Blue○	center		cxn D
	88450	ZF41	1	Blue○	center		cxn D
	89440	ZF41	1	Blue○	center		cxn D
	89683	ZF41	1	Blue○	center		cxn D
	89800	ZF41	1	Blue○	center		cxn D
	90610	ZF41	1	Blue○	center		cxn D
	90795	ZF41	1	○	center		cxn D
	90960	ZF41	1	○	center		cxn D
	91380	ZF41	1	○	center	for ar42	cxn D
	92400	ZF41	1	○	center		cxn D
	93470	ZF41	1	○	center		cxn D
	93700	ZF41	1	Blue○	center		cxn D
	94739	ZF41	1	Blue○	center		cxn D
	94890	ZF41	1	○	center		cxn D
	97340	ZF41	1	○	center		cxn D
	98014	ZF41	1	Blue○	center		cxn D
	100800	ZF41	2	○	center		cxn D
	100900	ZF41	2	Blue○			cxn D
	101107	ZF41	1.5	○	center	transitional type between 1 and 2	cxn D
	101229	ZF41	2	Blue○	center		cxn D
	101540	ZF41	2	○	center		cxn D
	101973	ZF41	2	Blue○	center		cxn D
	102420	ZF41	2	Blue○	center		cxn D
	102440	ZF41	1	○			
	102807	ZF41	2	Blue○	center		cxn D
	103695	ZF41	2	Blue○	center	for ar42	cxn D
	104075	ZF41	2		center		cxn D

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	104610	ZF41	2				
	105293	ZF41	2	Blue○	center		cxn D
	105960	ZF41	2	○	center		cxn D
	106180	ZF41	2	○	center		cxn D
	106830	ZF41	2	○	center		cxn D
	107270	ZF41	2	Blue○	center		cxn D
	107400	ZF41	2	○	center		cxn D
	108090	ZF41	2	Blue○	center		cxn D
	108780	ZF41	2				
	109560	ZF41	2	○	center		cxn D
	110180	ZF41	2	○	center		cxn D
	114360	ZF41	2	Blue○	center		cxn D
	114920	ZF41	2	○	center		cxn D
	115979	ZF41	2	Blue○	center		cxn D
	116110	ZF41	2	Blue○	center		cxn D
	116500	ZF41	2	○	center		cxn D
	116640	ZF41	2	○	center		cxn D
	117450	ZF41	2	○	center		cxn D
	117460	ZF41	2	○	center		cxn D
	119740	ZF41	2	Blue+	center		cxn D2
	120159	ZF41	2	+	center		cxn E
	120320	ZF41	2	Blue+	center		cxn E
	120499	ZF41	2	+	center		cxn E
	120900	ZF41	2	+			
	120950	ZF41	2	+	center		cxn E
	122050	ZF41	2	Blue+	center		cxn E
	122310	ZF41	2		center		cxn E
	123280	ZF41	2		center		cxn E
	123530	ZF40*-41	2	Blue+	ocular		cxn D3
	124070	ZF41	2				
	124310	ZF40*-41	2				
	124438	ZF40*-41	2	Blue○	center		cxn D3
	124650	ZF40*-41	2	Blue○	center		cxn D3
	124890	ZF40*-41	2	Blue○	center		cxn D3
	124930	ZF40*-41	2	Blue○	center		cxn D3
	124960	ZF40*-41	2	○	center		
	125240	ZF40*-41	2	○	center		cxn D3
		ZF40*-41	2				
		ZF40*-41	2	+	ocular	27-1079J2 (rain shield)	cxn F2
		ZF40*-41	2	Blue+			cxn F2
	126050	ZF40*-41	2	Blue+	ocular		cxn F2
	126061	ZF40*-41	2	+	ocular		cxn F2
	127090	ZF40*-41	2	Blue+	ocular		cxn F2
	127395	ZF40*-41	2	Blue+	ocular		cxn F2
	127812	ZF40*-41	2	+	ocular		cxn F2
	127953	ZF40*-41	2	Blue+	ocular	w/ matching ar43 c block	cxn F2
	128350	ZF40*-41	2	+	ocular		cxn F2
	128360	ZF40*-41	2	+	ocular		cxn F2
	128419	ZF40*-41	2	+	ocular		cxn F2
	128570	ZF40*-41	2	+	ocular		cxn F2
	128680	ZF40*-41	2	Blue+	ocular		cxn F2
	128727	ZF40*-41	2	+	ocular	White "M"	cxn F2
	128880	ZF40*-41					
	129169	ZF40*-41	2	Blue+	ocular		cxn F2
	129382	ZF41	2		center		cxn E
	134860	ZF41	2		center		cxn E
	135440	ZF41	2	+	center		cxn E
	135800	ZF41	2	Blue+	center		cxn E
	136046	ZF41	2	+	center		cxn E
	136200	ZF41	2	+△	center		cxn E
	136700	ZF41	2	Blue+	center		cxn E
	136751	ZF41	2	+	center		cxn E
	137066	ZF41	2	+	center		cxn E
	137080	ZF41	2				
	137500	ZF41	2	+	center		cxn E
	137880	ZF41	2	Blue+	center		cxn E
	139560	ZF41	2				
	140030	ZF41	2	+	center		cxn E
	140116	ZF41	2	Blue+			
	141269	ZF41	2	Blue+	center		cxn E
	141470	ZF41	2	+△	center		cxn E
	141510	ZF41	2	Blue+△	center		cxn E
	141740	ZF41	2	Blue+	center	27-1079J2 (rain shield)	cxn E
	141908	ZF41	2	+	center		

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	141990	ZF41	2	Blue+	center	White" M"	cxn E
	142205	ZF41	2	Blue+△	center		cxn E
	142170	ZF41	2	Blue+△	center		cxn E
	142330	ZF41	2	+	center		cxn E
	142420	ZF41	2	+			
	142620	ZF41	2	Blue+	center		cxn E
	142820	ZF41	2	+△	center		cxn E
	142850	ZF41	2	Blue+	center		cxn E
	142910	ZF41	2	+△	center		cxn E
		ZF41	2	+Blue△	(ocular)		cxn F
		ZF41/1	3	+	ocular		cxn F3
	145959	ZF40-41/1	3	+	ocular		cxn F4
	146250	ZF41/1	3				
	146350	ZF40-41/1	3	+	ocular	27-1079J2 (rain shield)	cxn F4
	147160	ZF41/1	3	Blue+	ocular		cxn F3
		ZF40-41/1	3	+△			
	147160	ZF40-41/1	3	Blue+	ocular		cxn F4
	147754	ZF40-41/1	3	Blue+	ocular		cxn F4
	148075	ZF41/1	3	+	ocular		cxn F3
	148380	ZF40-41/1	3	+△	ocular		cxn F4
	148391	ZF40-41/1	3	+	ocular		cxn F4
	148513	ZF40-41/1	3	Blue+	ocular		cxn F4
	a 149257	ZF41/1	3	Blue+	ocular		cxn F3
	a 149352	ZF40-41/1	3	+	ocular		cxn F4
	149540	ZF41/1	3	+			
	150070	ZF40-41/1	3	+	ocular		cxn F4
	152490	ZF41/1	3	+			
	152590	ZF41/1	3	Blue+	ocular		cxn F3
	153030	ZF40-41/1	3	Blue+	ocular		cxn F4
	153112	ZF41/1	3	+	ocular		cxn F3
	153240	ZF40-41/1	3	+	ocular		cxn F4
	153320	ZF40-41/1	3	+	ocular		cxn F4
	153510	ZF41/1	3	+△	ocular		cxn F3
	153528	ZF41/1	3	+△	ocular		cxn F3
	153730	ZF41/1	3	+△	ocular		cxn F3
	154160	ZF41/1	3	△	ocular		cxn F5
	154245	ZF41/1	3	△	ocular		cxn F5
	154440	ZF41/1	3	△	ocular		cxn F5
	154470	ZF41/1	3	△	ocular		cxn F5
	154587	ZF41/1	3	+△	ocular		cxn F3
	154724	ZF41/1	3	△	ocular		cxn F5
	154860	ZF41/1	3	△	ocular		cxn F5
	154990	ZF41/1	3	+△			
	155030	ZF41/1	3	△	ocular		cxn F5
	155260	ZF41/1	3				
	155497	ZF41/1	3	Blue△	ocular		cxn F5
	155820	ZF41/1	3	△	ocular		cxn F5
	156012	ZF41/1	3	△	ocular		cxn F5
	156306	ZF41/1	3	+△	ocular		cxn F3
	156400	ZF41/1	3				
	189892	ZF41/1	3	Blue△	ocular		cxn F5
	190290	ZF41/1	3	+	ocular		cxn F3
	190420	ZF41/1	3	+	ocular		cxn F3
	190676	ZF41/1	3	△			
	190685	ZF41/1	3	+	ocular		cxn F3
	190748	ZF41/1	3	△	ocular		cxn F5
	190947	ZF41/1	3	Blue+	ocular		cxn F3
	191123	ZF41/1	3	Blue△	ocular	27-1079J2 (rain shield)	cxn F5
	191253	ZF41/1	3	Blue△	ocular		cxn F5
	191293	ZF41/1	3	△	ocular		cxn F5
	193044	ZF41	2	+	ocular		cxn F
	193070	ZF41	2		ocular		cxn F
	193200	ZF41	2	+	ocular		cxn F
	193940	ZF41	2	+△	ocular		cxn F
	194104	ZF41	2	+Blue△	ocular		cxn F

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ddv	28		ZF41	1			
			ZF41	1	○		
460			ZF41	1	Blue●	center	ddv A
1219			ZF41	1	Blue●	center	ddv A
1611			ZF41	1	Blue●	center	ddv A
1670			ZF41	1	Blue●	center	ddv A
1980			ZF41	1	Blue●	center	ddv A
2343			ZF41	1	Blue●	center	ddv A
2552			ZF41	1	Blue●+	center	ddv A
2550			ZF41	1	Blue●+	center	ddv A
2610			ZF41	1	Blue●+	center	ddv A
2610			ZF41	1	Blue●+	center	ddv A
2824			ZF41	1	Green●G.+		
2920			ZF41	1	Blue●+	center	ddv A
3402			ZF41	1	Blue●+	center	ddv A
3750			ZF41	1	+	center	ddv A2
3901			ZF41	1	Blue+	center	ddv A2
4140			ZF41	1	Blue+	center	ddv A2
4820			ZF41	1	+Δ	center	ddv A2
5347			ZF41		Blue+		


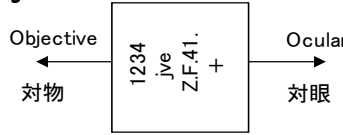
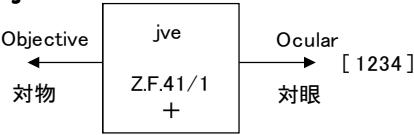
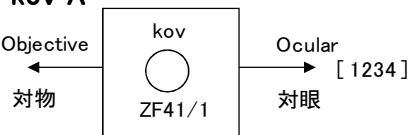
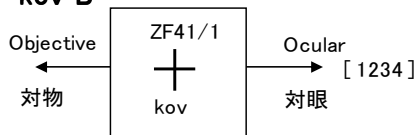
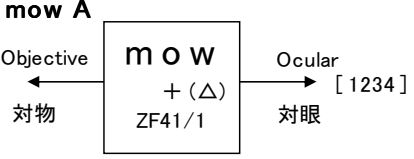
メーカーコード Manufacturer Code	シリアル ナンバー Serial # 1st digit is anonymous	型名 Designation	レンズ構成 Lens System 1:ZF41TypeI 2:ZF41TypeII 3:ZF41/1	グリース記号 Lubricant Marks	シリアルNo 位置 Serial # Location	その他マーキング等 Other Markings	刻印タイプ Markings Type
	5520 6064 6108 6560	ZF41 ZF41 ZF41 ZF41	1 1 1 1	 + + Blue+	 center center center		 ddv A2 ddv A2 ddv A2
	6600 6970 7050 7140	ZF41 ZF41 ZF41 ZF41	1 1 1 1	Blue+ Blue+ + Blue+	center center center center		ddv A2 ddv A2 ddv A2 ddv A2
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>ddv A</b></p> </div> <div style="text-align: center;"> <p><b>ddv A2</b></p> </div> </div>							
dow	54	ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1	3 3 3 3	 +  +	   ocular?		   dow A4 dow A2 dow A2 dow A2
	603 1286 1700	ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1	3 3 3 3	Green+ + Blue+ +	ocular? ocular ocular ocular		dow A4 dow A2 dow A2 dow A2
	2003 4514 5330 5525 5770	ZF40-41/1 ZF40 ZF40-41/1 ZF40-41/1 ZF40-41/1	3 3 3 3 3	Blue+ + + Blue+ +	ocular ocular ocular ocular ocular		dow A2 dow A dow A2 dow A2 dow A2
	5860 5950 6267 6420 6690	ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1	3 3 3 3 3	Blue+ + Blue+ + +	ocular ocular ocular ocular ocular		dow A2 dow A2 dow A2 dow A2 dow A2
	6910 7011 7310 7611 7732	ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1	3 3 3 3 3	Blue+ + + Blue+ Blue+	ocular ocular ocular ocular ocular		dow A2 dow A2 dow A2 dow A2 dow A2
	7745 8265 8330 8552 8610	ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1	3 3 3 3 3	Blue+ Blue+  + Blue+	ocular ocular ocular ocular ocular		dow A2 dow A2 dow A2 dow A2 dow A2
	8823 9900 10360 10391 11424	ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF40-41/1	3 3 3 3 3	+ Blue+ Blue+ Blue+ +	ocular ocular ocular ocular ocular	27-1079J2 (rain shield)	dow A2 dow A2 dow A2 dow A2 dow A2
	11740 13137 13147 13200 13730	ZF40-41/1 ZF40-41/1 ZF40-41/1 ZF41/1 ZF41/1	3 3 3 3 3	Blue+ + + + Blue+	ocular ocular ocular ocular ocular		dow A2 dow A2 dow A2 dow A3 dow A3
	13790 14200 14520 14790 14900	ZF40 ZF40-41/1 ZF41/1 ZF40-41/1 ZF41/1	3 3 3 3 3	+  Blue+ + Blue+	ocular  ocular ocular ocular		dow A  dow A3 dow A2 dow A3
	15130 15401 15520 15598 15600	ZF41/1 ZF40-41/1 ZF41/1 ZF40-41/1 ZF40-41/1	3 3 3 3 3	+ Blue+ Blue+ Blue+ Blue+	ocular ocular ocular ocular ocular	27-1079J2 (rain shield)	dow A3 dow A2 dow A3 dow A2 dow A2
	15656 16011 16277 16341	ZF41/1 ZF40-41/1 ZF41/1 ZF41/1	3 3 3 3	Blue+ + + Blue+	ocular ocular ocular ocular		dow A3 dow A2 dow A3 dow A3
			3	+	(ocular)		dow A3

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		<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><b>dow A</b></p> <p>Objective ← [ 1234 ] 対物 ← [ 1234 ]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> dow + ZF 40 </div> <p style="text-align: center;">→ [ 1234 ] 対眼 → [ 1234 ]</p> </div> <div style="width: 48%;"> <p><b>dow A2</b></p> <p>Objective ← [ 1234 ] 対物 ← [ 1234 ]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> dow + ZF 40 41/1 </div> <p style="text-align: center;">→ [ 1234 ] 対眼 → [ 1234 ]</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 48%;"> <p><b>dow A3</b></p> <p>Objective ← [ 1234 ] 対物 ← [ 1234 ]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> dow + ZF 41/1 </div> <p style="text-align: center;">→ [ 1234 ] 対眼 → [ 1234 ]</p> </div> <div style="width: 48%;"> <p><b>dow A4</b></p> <p>Objective ← [ 1234 ] 対物 ← [ 1234 ]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> dow + <del>ZF 40</del> ZF 41/1 </div> <p style="text-align: center;">→ [ 1234 ] 対眼 → [ 1234 ]</p> </div> </div>					
dym	15						
		ZF41/1	3	+△			dym A
	059	ZF41/1	3	+			dym A
	110	ZF40-41/1	3	+	ocular		dym A3
	147	ZF41/1	3	+△	ocular		dym A
	527	ZF41/1	3	+	ocular		dym A
	1130	ZF41/1	3	+△	ocular		dym A
	1190	ZF41/1	3	+△	ocular		dym A
	1325	ZF41/1	3	+△	ocular		dym A
	1430	ZF41/1	3	+△	ocular		dym A
	1490	ZF41/1	3	+△	ocular		dym A
	2236	ZF41/1	3	+△	ocular		dym A
	2320	ZF41/1	3	+△	ocular		dym A
	11910	ZF41/1	3	△	ocular		dym A2
		ZF41/1	3	△	(ocular)		dym A2
		<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><b>dym A</b></p> <p>Objective ← [ 1234 ] 対物 ← [ 1234 ]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> dym + (△) Z.F.41/1 </div> <p style="text-align: center;">→ [ 1234 ] 対眼 → [ 1234 ]</p> </div> <div style="width: 48%;"> <p><b>dym A2</b></p> <p>Objective ← [ 1234 ] 対物 ← [ 1234 ]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> dym △ Z.F.41/1 </div> <p style="text-align: center;">→ [ 1234 ] 対眼 → [ 1234 ]</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 48%;"> <p><b>dym A3</b></p> <p>Objective ← [ 1234 ] 対物 ← [ 1234 ]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> dym + Z.F.41/1 </div> <p style="text-align: center;">→ [ 1234 ] 対眼 → [ 1234 ]</p> </div> </div>					
emv	4						
	4	ZF41/1	3	+	ocular		emv A
	291	ZF41/1	3	+	ocular		emv A
	400	ZF41/1	3	+	ocular		emv A
	405	ZF41/1	3	+	ocular		emv A
		<p><b>emv A</b></p> <p>Objective ← [ 1234 ] 対物 ← [ 1234 ]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> emv + Z.F.41/1 </div> <p style="text-align: center;">→ [ 1234 ] 対眼 → [ 1234 ]</p>					
eso	22						
	1144	ZF41/1	3	+			eso A
	1210	ZF40-41/1	3	Blue+	ocular		eso A2
	1210	ZF40-41/1	3	Blue+	ocular		eso A2
	1330	ZF40-41/1	3	Blue+	ocular		eso A2
	1490	ZF40-41/1	3	Blue+	ocular		eso A2
	1790	ZF41/1	3	+	ocular		eso A
	1850	ZF41/1	3	+	ocular		eso A
	1870	ZF41/1	3	Blue+	ocular		eso A
	1894	ZF41/1	3	Blue+	ocular	27-1079J2 (rain shield)	eso A
	1960	ZF41/1	3	+	ocular		eso A
	2255	ZF41/1	3	Blue+	ocular		eso A
	2265	ZF41/1	3	+	ocular		eso A



メーカーコード Manufacturer Code	シリアル ナンバー Serial # 1st digit is anonymous	型名 Designation	レンズ構成 Lens System 1:ZF41TypeI 2:ZF41TypeII 3:ZF41/1	グリース記号 Lubricant Marks	シリアルNo 位置 Serial # Location	その他マーキング等 Other Markings	刻印タイプ Markings Type
	2280 2410	ZF41/1 ZF41/1	3 3	+ +			
	2520 2590 2694 2720 2750	ZF41/1 ZF41/1 ZF41/1 ZF40-41/1 ZF40-41/1	3 3 3 3 3	Blue+ Blue+ + + +	ocular ocular ocular ocular ocular		eso A eso A eso A eso A2 eso A2
	2761 2770 2910	ZF41/1 ZF41/1 ZF41/1	3 3 3	Blue+ + +	ocular ocular ocular		eso A eso A eso A
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>eso A</b></p> </div> <div style="text-align: center;"> <p><b>eso A2</b></p> </div> </div>							
fvs	12						
	0102 0390	ZF41/1 ZF41/1 ZF41/1 ZF41/1	3 3 3 3	+ Blue+ Blue+	ocular ocular		fvs A fvs A
	0390 0628 0729 764 0810	ZF41/1 ZF41/1 ZF41/1 ZF41/1 ZF41/1	3 3 3 3 3	+ + + +	ocular ocular ocular ocular		fvs A fvs A fvs A fvs A fvs A
	0830 1198 1225	ZF41/1 ZF41/1 ZF41/1	3 3 3	+ Blue+ +	ocular ocular ocular		fvs A fvs A fvs A
<p><b>fvs A</b></p>							
fzg	33						
	70 460 480	ZF41 ZF41 ZF41 ZF41	1 1 1 1	+   	center center center		fzg A fzg A fzg A
	694 843 1316 1673 1730	ZF41 ZF41 ZF41 ZF41 ZF41	1 1 1 1 1	+   +	center center center ocular ocular		fzg A fzg A fzg A fzg B fzg B
	2330 2700 3140 3592 0360	ZF41 ZF41 ZF41 ZF41 ZF41/1	1 1 1 1 3	+  + +	ocular ocular ocular		fzg C fzg C fzg C2
	0630 0660 01759 02280 02390	ZF41/1 ZF41/1 ZF41/1 ZF41/1 ZF41/1	3 3 3 3 3	+ + +  	ocular ocular ocular		fzg C2 fzg C2 fzg C2
	02470 02510 2957 03200 03610	ZF41/1 ZF41/1 ZF41/1 ZF41/1 ZF41/1	3 3 3 3 3	+    	ocular ocular ocular		fzg C2 fzg C2 fzg C2
	04140 04280 04419 04420 05223	ZF41/1 ZF41/1 ZF41/1 ZF41/1 ZF41/1	3 3 3 3 3	+ + + Blue△ +	ocular ocular ocular ocular	27-1079J2 (rain shield) 27-1079J2 (rain shield)	fzg C2 fzg C2 fzg C2 fzg C3 fzg C2
	06054 07170 07266	ZF41/1 ZF41/1 ZF41/1	3 3 3	+ △ △	ocular ocular		fzg C2

メーカーコード Manufacturer Code	シリアルナンバー Serial # 1st digit is anonymous	型名 Designation	レンズ構成 Lens System 1:ZF41TypeI 2:ZF41TypeII 3:ZF41/1	グリース記号 Lubricant Marks	シリアルNo 位置 Serial # Location	その他マーキング等 Other Markings	刻印タイプ Markings Type
	13890	ZF41/1	3	+			
gkp	7	ZF41/1	3	+			
		895 899 ZF41/1	3 3 3	+ + +Blue△ +Blue△		ocular ocular	gkp A gkp A
		3563 4030 4080 ZF41/1	3 3 3	+ + +		ocular ocular ocular	gkp A gkp A gkp A
jve	29	1675 1701 2070 2810 ZF41	1 1 1 1	○ ○ Blue○ ○		center center center center	jve A jve A jve A jve A
		3102 3140 3230 3350 4500 ZF41	1 1 1 1	○ Blue○ ○+ ○ Blue+		center center center center center	jve A jve A jve A jve A jve A
		4559 4700 5115 5523 5960 ZF41	1 1 1 1	○+ ○+ + + +		center center center center center	jve A jve A jve A2 jve A2 jve A2
		6026 ZF41	1	+		center	jve A2
		04369 6510 6640 ZF41/1	3 3 3	+ + +		ocular ocular ocular	jve B jve B
		7040 7188 7690 8746 9170 ZF41/1	3 3 3 3	+ + + + +		ocular ocular ocular ocular ocular	jve B jve B jve B jve B jve B 27-1079J2 (rain shield) x2
		9328 9598 9620 10060 10290 ZF41/1	3 3 3 3 3	+ + + + +		ocular ocular ocular ocular	jve B jve B jve B jve B

メーカーコード Manufacturer Code	シリアルナンバー Serial # 1st digit is anonymous	型名 Designation	レンズ構成 Lens System 1:ZF41TypeI 2:ZF41TypeII 3:ZF41/1	グリース記号 Lubricant Marks	シリアルNo位置 Serial # Location	その他マーキング等 Other Markings	刻印タイプ Markings Type					
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>jve A</b></p>  </div> <div style="width: 45%;"> <p><b>jve A2</b></p>  </div> </div> <div style="margin-top: 20px;"> <p><b>jve B</b></p>  </div>											
kov	16		ZF41/1	3	Large○	-	1-8 目盛なし w/o calibrations シリアルNoなし No serial#					
			ZF41/1	3	Large○							
			ZF41/1	3	Large○							
			ZF41/1	3	LargeBlue○							
			ZF41/1	3	Large○							
		202f	ZF41/1	3	Large+			ocular	シリアルNoなし No serial#	kov A kov B kov B kov A kov A		
		234f	ZF41/1	3	Large+			ocular				
		1821	ZF41/1	3	Large○			ocular				
		2240	ZF41/1	3	Large○			ocular				
		2690	ZF41/1	3	Large○			ocular			kov A kov A kov A	
		3100f	ZF41/1	3	Large○			ocular				
		7071	ZF41/1	3	Large○			ocular				
		7390	ZF41/1	3	Large○							
		9581	ZF41/1	3	Large○							
		18000	ZF41/1	3	Large○			ocular				kov A kov A
		190210	ZF41/1	3	Large○			ocular				
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>kov A</b></p>  </div> <div style="width: 45%;"> <p><b>kov B</b></p>  </div> </div>												
mow	9		ZF41/1	3	+							
		380	ZF41/1	3	+							
		510	ZF41/1	3	+			ocular				mow A mow A
		1023	ZF41/1	3	+			ocular				
		1180	ZF41/1	3	+△			ocular				
		1350	ZF41/1	3	+			ocular ocular ocular				
		1449	ZF41/1	3	+							
		1781	ZF41/1	3	+							
		1820	ZF41/1	3	Blue+							
		<p><b>mow A</b></p> 										
計 Total	525											

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### データ募集中！ Data Wanted!

ZF41またはZF41/1をお持ちの方、どうかデータの提供をお願いいたします！  
Please add the data of your ZF41 or ZF41/1 to the database!

E-mail me to: [tomo4005@hotmail.com](mailto:tomo4005@hotmail.com)

### メーカー一覧 Manufacturer List

bmj: Hensoldt & Sohne Optische Werke A.-G., Wetzlar  
cag: Swarovski, Tyrol, Austria  
clb: Dr. F. A. Wohler, Kassel  
cxn: Emil Busch A.-G., Optische Industrie, Rathenow  
ddv: Oculus, Berlin  
dow: Opticotechna G.m.b.H., Prerau, Czech  
dym: Runge & Kaufuss, Rathenow  
eso: Rodenstock Optische Werke, Munich  
emv: Hertel & Reuss, Optik u. Feinmechanik, Kassel  
fvs: Spindler & Hoyer, Gottingen  
fzg: Feinmechanik G.m.b.H., Kassel  
gkp: Rufs & Co, Kassel  
jve: Ernst Ludvig Optisches Werk, Weixdorf  
kov: Etablissement Barbier, Benard et Turenne, Paris  
mow: Seidenweberer Berga C.W.Crous & Co., Berga/Elster

### グリース記号の意味 Meanings of Lubricant Marks

グリース記号は、主として耐寒性能を示すためにその機器に使用されたグリースを明示する。  
Lubricant Marks indicate the grease type used on the instruments, mainly to show its performance on cold resistance.

K.F.: Invarol  
○: Vakuulfett 1416  
+: Instrumentenfett 1442  
△: Unknown