

# JAL421/18 JUL/NRT - DME

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LOG 001/172225/JUL16											
ETOPS FLT PLAN (180MINS)											
<b>JAL421/18</b>		NRTDME 02		JA840J /AJFS		STD 0145Z		STA 1200Z		BLK 10+15	
		(NRTDME02)									
788		CIV CI041		CAPT. OYAMA IS							
CI 70		M0.85/310/250									

RQRD FUEL TO DEST 0853 090.6 SVO/P011 0020 003.4 CONT 0030 004.5 HOLD 0030 004.0 EXTRA/S 0030 004.2 EXTRA 0000 000.0 EXTRA/E 0000 000.0 UNUSABLE 000.0 TOF 1043 106.7 TAXIOUT 0024 001.3 RAMP 108.1 TAXI IN PAD TIME  LED/P007 0104 011.3			TTL RSV 016.1 MIN RSV 011.5			<b>STR LIMIT</b> 502.5 <b>T/O LIMIT</b> 502.5 MX LDWT 380.0 B/O FUEL 090.6 <b>L/D LIMIT</b> 470.6 MX ZFWT 355.0 TOF 106.7 * <b>Z/F LIMIT</b> 461.7			PLN ZFWT 311.9 PLN TOWT 418.6 PLN LDWT 328.0 AVG TAS 478 AVG WF P001 AVG GS 481/554/891 GRD DIST 4272 AIR DIST 4263		
						FCST TOWT					

T/O ALTN/		ALTN/UUEE		FL/50	
ROUTE/UUDD DCT WT DCT GEKLA DCT RUGEL DCT BESTA DCT UUEE					

SCENARIO	FUEL	TIME
HAIJ400* CLALA410* AVGOK400 PTG430*		
(FL +4)	+93	+00:01
HAIJ400* CLALA410* AVGOK400 PTG430*		
(FL +3)	+93	+00:01
HAIJ400* CLALA410* AVGOK400 PTG430*		
(FL +2)	+93	+00:01
HAIJ400 CLALA410 AVGOK400 PTG430		
(FL +1)	+93	+00:01
GOSEN360 AVGOK390 AVGOK380		
(FL -1)	+904	+00:02
GOSEN340 AVGOK370 AVGOK360		
(FL -2)	+2086	+00:12
HAIJ380 AVGOK410 AVGOK400		
(CI000)	-223	+00:08
HAIJ380 AVGOK410 AVGOK400		
(CI999)	+13170	-00:17

RMKS		
SELECTED RWY: T/O RWY 34L L/D RWY 14L FUEL COR/ P1.0		
T/O 16R/DRY/TO- 5/P34C/CALM/Q2977		
L/D 32R/WET/F30/P30C/CALM/Q2986		
MEL		

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ITEMS CONFIRMED BEFORE SIGN, LICENSE MENTAL AND PHSICAL COND		PIC		DISP UDEF 2016-07-17 22:25UTC		
(FPL-JAL421-IS -B788/H-SDFLOVE1E2E3GHIJ3J4J5J6M1M2RWYZ/LB1D1 -RJAA0145 -N0490F380 JYOSO Y37 HAIJI/N0480F410 Y37 AVGOK/K0910F400 R211 HAB A333 LALIR A718 ASMUR R22 HMN R487 FIGUR G713 LIKNU R815 VAREG G723 BD DCT SW DCT BESTA DCT RUGEL DCT GEKLA DCT -UUDD0853 UUEE ULLI -PBN/A1L1B1C1D1O1S2 NAV/GBAS RNVD1E2A1 DOF/160718 REG/JA840J EET/UHHH0103 UELL0242 UIII0322 UNKL0416 USTR0534 USSS0643 USPP0706 USKK0727 ULWW0755 UUWV0758 SEL/AJFS CODE/86DCA2 RALT/UHHH UNNT USTR UWWW UUDD RMK/ACASII -E/1043 P/162 R/UE S/M J/L D/8 306 SILVER A/WHITE CRANE C/OYAMA IS)						
ALTERNATE	FROM	TO	APPLY			
KHV	04:11	09:33	180(165)			
OVB	08:42	09:41	180(165)			
TJM	09:14	10:55	180(165)			
KUF	10:30	11:17	180(165)			
DME	10:59	11:18	180(165)			
ETP APT	WF	ETP	FRMNG	ETO	TO	EMERG
KHV/OVB	P000/P005	009NM TO MOTED	061.5	03:50	03:32	036.6X2 (024.9)
OVB/TJM	M011/P017	003NM TO STONI	041.2	05:55	01:35	015.5X2 (025.6)
TJM/KUF	M005/P013	038NM FM POBEM	027.9	07:19	01:25	013.6X2 (014.3)
KUF/DME	P009/M010	034NM TO TIRAT	023.0	07:51	01:15	012.2X2 (010.8)

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W/T	FL	TC	MC	Z/END	AWY FIR	WP COORD	DST	ZTM	ETO	ATO	CTM	FRMNG
194014 P15		000	000	RJAA	JYOSO7	N35459 E140231	000	000			0000	106.7
066004 P26	CL	328	335	EEP	JYOSO7	N35463 E140228	002	001			0001	106.2
300013 P12	CL	327	335	ARIES	JYOSO7	N35561 E140151	012	003			0004	104.3
274018 P7	CL	330	337	TOADS	JYOSO7	N36028 E140102	008	002			0006	103.5
264026 M7	CL	312	320	JYOSO	JYOSO7	N36168 E139512	021	003			0009	102.0
256026 M12	CL	312	319	AKAGI	Y37	N36235 E139419	010	001			0010	101.4
250024 M15	CL	344	351	KALON	Y37	N36294 E139398	006	001			0011	101.0
232020 M31	CL	343	351	MAUKA	Y37	N36584 E139291	030	004			0015	099.6
228035 M43	CL	343	351	TAGOK	Y37	N37200 E139211	023	002			0017	098.8
220048 M47	CL	343	351	GOSEN	Y37	N37287 E139178	009	001			0018	098.5
218051 M49	CL	343	351	SANJO	Y37	N37379 E139143	010	002			0020	098.2
222059 M49	CL	319	327	(T/C)	Y37	N37394 E139126	002	000			0020	098.1
222059 M49	38	319	327	HAIJI	Y37	N38533 E137509	098	012			0032	096.0
218068 M52	CL	003	012	CLALA	Y37	N39111 E137523	018	002			0034	095.3
220072 M54	CL	003	012	(T/C)	Y37	N39370 E137543	026	003			0037	094.6
226082 M52	41	004	013	(T/D)	Y37	N43316 E138143	235	026			0103	090.0
228087 M51	DS	005	015	AVGOK	Y37 UHHH	N43361 E138148	004	000			0103	090.0
224094 M51	40	338	348	DIRUL	R211	N44495 E137332	079	009			0112	088.4
226097 M50	40	337	348	PELON	R211	N45130 E137193	025	003			0115	087.9
226097 M50	40	338	348	VELTA	R211	N45290 E137101	017	002			0117	087.5
230101 M48	40	337	348	GIMES	R211	N46155 E136417	051	006			0123	086.4
228086 M47	40	336	348	NEBKA	R211	N46431 E136245	030	004			0127	085.8
232050 M47	40	336	347	SORUS	R211	N47163 E136028	036	004			0131	085.1
232049 M47	40	336	348	HAB	R211	N48327 E135126	084	010			0141	083.3
246024 M49	40	318	330	IVADA	A333	N49050 E134281	044	005			0146	082.4
270016 M50	40	326	338	NIKRA	A333	N49285 E134042	028	004			0150	081.8

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W/T	FL	TC	MC	Z/END	AWY FIR	WP COORD	DST	ZTM	ETO	ATO	CTM	FRMNG
328014 M51	40	326	338	BESPA	A333	N50054 E133259	044	005			0155	080.8
346018 M54	40	325	338	KEGES	A333	N51115 E132131	081	011			0206	079.0
336025 M56	40	322	335	OSPIR	A333	N51477 E131280	046	006			0212	078.0
292019 M55	40	322	334	DELUK	A333	N52043 E131068	021	002			0214	077.6
316018 M58	40	321	334	IPREL	A333	N52568 E129573	068	009			0223	076.1
296017 M57	40	320	333	ODENA	A333	N53318 E129088	046	006			0229	075.1
274018 M58	40	320	333	BAKAT	A333	N54048 E128214	043	005			0234	074.2
260025 M57	40	319	332	LALIR	A333 UELL	N54486 E127159	058	008			0242	073.0
236036 M56	40	306	320	IDMIR	A718	N56376 E122546	184	023			0305	069.1
230036 M56	40	304	317	BESEG	A718	N56501 E122212	022	003			0308	068.6
222049 M56	40	304	317	ASMUR	A718 UIII	N57515 E119268	113	014			0322	066.2
218048 M55	40	297	309	RIKLI	R22	N58001 E118549	019	002			0324	065.8
228045 M52	40	296	308	URILA	R22	N58575 E114584	137	018			0342	062.9
224041 M51	40	293	304	NESUM	R22	N59115 E113531	037	004			0346	062.2
224038 M51	40	292	302	ETP	R22	N59233 E112558	031	004			0350	061.5
224038 M51	40	291	301	MOTED	R22	N59264 E112401	009	001			0351	061.3
222026 M46	40	291	300	NITIM	R22	N59280 E112320	004	001			0352	061.2
222026 M46	40	290	300	TOSGI	R22	N59366 E111456	025	003			0355	060.7
222021 M45	40	290	298	RELNA	R22	N59535 E110089	052	006			0401	059.6
214013 M43	40	288	296	KESIS	R22	N60105 E108229	056	007			0408	058.5
212008 M42	40	287	294	ATNOR	R22	N60196 E107212	032	004			0412	057.8
224004 M42	40	286	292	RADON	R22 UNKLY	N60290 E106130	035	004			0416	057.1
304003 M42	40	285	290	KERUK	R22	N60433 E104205	057	007			0423	056.0
046010 M44	40	283	286	TEGMO	R22	N61043 E100475	106	013			0436	053.9
048022 M45	40	280	281	TEMOT	R22	N61223 E096409	121	014			0450	051.5
044032 M52	40	274	268	PTG	R22	N61359 E090008	192	022			0512	047.8

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W/T	FL	TC	MC	Z/END	AWY FIR	WP COORD	DST	ZTM	ETO	ATO	CTM	FRMNG
056027 M56	40	273	262	KUMIR	R22 USTR	N61460 E083330	185	022			0534	044.4
088023 M57	40	268	254	TUPEG	R22	N61408 E077493	164	020			0554	041.3
086026 M57	40	266	250	ETP	R22	N61402 E077314	008	001			0555	041.2
086026 M57	40	265	249	STONI	R22	N61400 E077266	003	000			0555	041.1
090025 M56	40	265	249	ULGUN	R22	N61300 E074149	092	011			0606	039.4
086020 M55	40	261	244	KOVER	R22	N61188 E072047	064	007			0613	038.2
070021 M54	40	261	243	STELA	R22	N61130 E070559	034	004			0617	037.6
052019 M54	40	259	242	KUPEN	R22	N61079 E070022	027	003			0620	037.1
052019 M54	40	258	240	HMN	R22	N61020 E069077	027	004			0624	036.6
048018 M54	40	249	231	NEMON	R487	N60519 E068166	027	003			0627	036.1
058018 M54	40	248	230	KESEB	R487	N60430 E067324	023	003			0630	035.7
092013 M54	40	247	230	PIGUR	R487	N60070 E064499	088	010			0640	034.0
110013 M52	40	272	255	SADER	G713 USSSX	N60078 E063550	027	003			0643	033.5
108013 M52	40	271	254	TUDMI	G713	N60082 E063065	024	003			0646	033.1
102015 M51	40	271	254	OGPAS	G713	N60084 E062134	027	003			0649	032.6
076015 M49	40	270	253	FIR WPT	G713 USSSY	N60077 E060245	054	007			0656	031.5
028019 M50	40	268	251	OKATI	G713 USPP	N60040 E057427	082	010			0706	030.0
356021 M53	40	266	249	POBEM	G713	N59584 E055241	070	008			0714	028.7
338021 M54	40	263	246	ETP	G713	N59533 E054079	038	005			0719	027.9
338021 M54	40	262	245	RURAD	G713 USKK	N59430 E052013	065	008			0727	026.7
326027 M54	40	260	244	LIKNU	G713	N59364 E050513	036	005			0732	026.0
320034 M55	40	258	242	SODMU	R815	N59167 E048056	087	011			0743	024.3
292035 M55	40	256	241	ETP	R815	N59001 E046046	064	008			0751	023.0
292035 M55	40	254	239	TIRAT	R815 ULWW	N58507 E045027	034	004			0755	022.3
286035 M56	40	253	239	RULEP	R815	N58463 E044356	015	002			0757	022.0
286035 M56	40	253	238	FIR WPT	R815 UUVV	N58457 E044320	001	001			0758	022.0

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W/T	FL	TC	MC	Z/END	AWY FIR	WP COORD	DST	ZTM	ETO	ATO	CTM	FRMNG
252035 M55	40	252	238	LUMAK	R815	N58130 E041290	102	013			0811	020.0
240035 M54	40	250	237	OLUGA	R815	N58026 E040363	030	004			0815	019.4
230039 M55	40	249	236	ULGAM	R815	N57541 E039549	024	003			0818	018.9
230039 M55	40	249	236	VAREG	R815	N57460 E039169	022	003			0821	018.4
226039 M55	40	232	220	REKSO	G723	N57196 E038143	043	006			0827	017.6
220044 M55	40	233	221	(T/D)	G723	N57117 E037552	013	002			0829	017.3
210043 M54	DS	233	221	BD	G723	N57065 E037427	009	001			0830	017.2
206026 M17	DS	191	180	SW	DCT	N56221 E037259	046	006			0836	017.0
204027 P3	DS	158	147	BESTA	DCT	N55550 E037445	030	005			0841	016.8
204027 P5	DS	126	115	RUGEL	DCT	N55519 E037519	006	001			0842	016.8
188025 P12	DS	179	168	GEKLA	DCT	N55390 E037521	013	003			0845	016.7
190024 P30	DS	150	140	EXP	GEKLA14	N55249 E037540	020	007			0852	016.2
190024 P20	DS	150	140	UDD	GEKLA14	N55245 E037544	001	001			0853	016.1

## ALTN-1 NAVLOG

W/T	FL	TC	MC	Z/END	AWY FIR	WP COORD	DST	ZTM	ETO	ATO	CTM	FRMNG
182023 P15		000	000	UDD	DCT	N55245 E037544	000	000			0000	016.1
190025 P21	CL	339	328	(T/C)	DCT	N55301 E037506	006	002			0002	014.9
190025 P21	05	340	329	WT	DCT	N55353 E037472	016	003			0005	014.4
190025 P21	05	036	025	GEKLA	DCT	N55390 E037521	005	001			0006	014.3
184024 P13	CL	359	348	(T/C)	DCT	N55399 E037520	001	001			0007	014.1
184024 P13	06	360	349	RUGEL	DCT	N55519 E037519	012	002			0009	013.8
184024 P13	06	306	295	BESTA	DCT	N55550 E037445	006	001			0010	013.6
184024 P13	06	287	276	(T/D)	DCT	N55585 E037241	012	003			0013	013.2
180023 P25	DS	104	093	UUEE	DCT	N55584 E037248	020	007			0020	012.7

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WINDS/TEMPERATURES ALOFT FORECAST								
<b>CLIMB</b>	050 66004 P18	100 278015 P11	150 272022 P02	200 264026 M06	250 252024 M15	300 232019 M27	350 232024 M41	
<b>DESC</b>	050 190024 P21	100 188023 P07	150 194023 M05	200 202024 M15	250 204027 M25	300 204035 M39	350 210039 M48	
	PLN-10000	PLN-8000	PLN-6000	PLN-4000	PLN-2000	PLN	PLN+2000	TROPO
ARIES	280 240021 M22	300 232019 M27	320 234021 M32	340 236023 M37	360 228025 M45	380 220027 M49	400 214030 M53	53163
TOADS	280 240021 M22	300 232019 M27	320 234021 M32	340 236023 M37	360 228025 M45	380 220027 M49	400 214030 M53	53166
JYOSO	280 240021 M22	300 232019 M27	320 234021 M32	340 236023 M37	360 228025 M45	380 220027 M49	400 214030 M53	53172
AKAGI	280 240021 M22	300 232019 M27	320 234021 M32	340 238024 M37	360 230026 M45	380 222028 M49	400 214031 M53	53175
KALON	280 240021 M22	300 232019 M27	320 234021 M32	340 238024 M37	360 230026 M45	380 222028 M49	400 214031 M53	53175
MAUKA	280 240021 M22	300 232019 M27	320 234021 M32	340 238024 M37	360 230026 M45	380 222028 M49	400 216031 M53	53188
TAGOK	280 236031 M21	300 230030 M26	320 230031 M32	340 232033 M37	360 228036 M45	380 224039 M49	400 220041 M53	52321
GOSEN	280 232038 M22	300 226039 M27	320 226040 M32	340 226042 M37	360 222046 M45	380 218051 M49	400 216053 M53	50368
SANJO	280 232038 M22	300 226039 M27	320 226040 M32	340 226042 M37	360 222046 M45	380 218051 M49	400 216053 M53	50364
HAIJI	310 230051 M30	330 230054 M35	350 228056 M41	370 224058 M47	390 222060 M50	410 222057 M55	430 222054 M58	49553
CLALA	310 228061 M30	330 226065 M36	350 224067 M42	370 222068 M48	390 220069 M50	410 218065 M55	430 218061 M58	49357
AVGOK	300 234083 M28	320 232082 M33	340 232082 M38	360 230086 M45	380 230090 M48	400 228087 M51	420 224077 M54	49408
DIRUL	300 234096 M28	320 230098 M33	340 228101 M38	360 226101 M45	380 226101 M48	400 224094 M51	420 222082 M53	53714
PELON	300 240062 M31	320 234084 M35	340 228107 M38	360 228106 M44	380 228106 M47	400 226097 M50	420 224081 M52	53659
VELTA	300 240062 M31	320 234084 M35	340 228106 M38	360 228106 M44	380 228106 M47	400 226097 M50	420 224081 M52	53644
GIMES	300 242021 M36	320 238047 M37	340 236073 M38	360 234086 M44	380 232099 M46	400 230101 M48	420 228092 M51	44999
NEBKA	300 250010 M37	320 242024 M40	340 234038 M42	360 230075 M44	380 230087 M46	400 228086 M47	420 224072 M49	34160
SORUS	300 280008 M37	320 264013 M42	340 248018 M46	360 238038 M46	380 234046 M46	400 232050 M47	420 230048 M48	34921
HAB	300 280008 M37	320 264013 M42	340 250018 M46	360 238038 M46	380 234046 M46	400 232049 M47	420 230047 M48	34955
IVADA	300 282011 M37	320 274013 M42	340 268016 M47	360 258018 M50	380 252020 M50	400 246024 M49	420 240028 M49	36346
NIKRA	300 296012 M38	320 302017 M43	340 308022 M47	360 298019 M50	380 286016 M51	400 270016 M50	420 254020 M50	37053
BESPA	300 352025 M38	320 02031 M42	340 12038 M46	360 04031 M49	380 356023 M52	400 328014 M51	420 290016 M51	37797
KEGES	300 06031 M37	320 04032 M42	340 04034 M47	360 04029 M51	380 06025 M55	400 346018 M54	420 304016 M53	37986
OSPIR	300 04026 M36	320 06028 M42	340 08030 M47	360 04029 M51	380 00028 M56	400 336025 M56	420 300020 M54	37671

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	PLN-10000	PLN-8000	PLN-6000	PLN-4000	PLN-2000	PLN	PLN+2000	TROPO
DELUK	300 348027 M36	320 348027 M42	340 350028 M47	360 348028 M53	380 348028 M56	400 292019 M55	420 274016 M54	39356
IPREL	300 338021 M36	320 338021 M41	340 340022 M46	360 344022 M53	380 348022 M57	400 316018 M58	420 286015 M56	40470
ODENA	300 312027 M36	320 318024 M41	340 324021 M46	360 324020 M53	380 324020 M57	400 296017 M57	420 280016 M56	40201
BAKAT	300 292022 M35	320 288019 M41	340 284016 M46	360 286018 M53	380 290020 M57	400 274018 M58	420 266017 M57	40100
LALIR	300 250030 M36	320 256028 M41	340 262027 M46	360 262027 M53	380 262027 M56	400 260025 M57	420 256021 M57	41426
IDMIR	300 228041 M35	320 226040 M41	340 226040 M46	360 228044 M53	380 230048 M56	400 236036 M56	420 238031 M55	39763
BESEG	300 218039 M35	320 218040 M41	340 218041 M46	360 220045 M53	380 222049 M56	400 230036 M56	420 232031 M55	39751
ASMUR	300 218042 M36	320 218046 M42	340 220051 M47	360 220051 M51	380 220051 M55	400 222049 M56	420 230039 M54	38481
RIKLI	300 210041 M36	320 210044 M42	340 212048 M47	360 212048 M51	380 212049 M56	400 218048 M55	420 226039 M53	38255
URILA	300 220056 M37	320 218059 M42	340 216063 M47	360 220058 M51	380 224052 M52	400 228045 M52	420 228036 M51	36824
NESUM	300 222056 M37	320 218057 M42	340 216058 M47	360 218054 M50	380 220050 M53	400 224041 M51	420 224032 M50	37683
MOTED	300 222052 M38	320 220053 M43	340 218054 M47	360 218050 M50	380 220046 M52	400 224038 M51	420 226029 M49	37500
NITIM	300 226071 M38	320 224069 M42	340 224068 M46	360 224044 M47	380 224034 M46	400 222026 M46	420 222020 M46	35234
TOSGI	300 226071 M38	320 224069 M42	340 224068 M46	360 224044 M47	380 224034 M46	400 222026 M46	420 222020 M46	35243
RELNA	300 218069 M38	320 218067 M43	340 220067 M45	360 220049 M47	380 220032 M46	400 222021 M45	420 222017 M45	31878
KESIS	300 188026 M38	320 196027 M39	340 204029 M40	360 208023 M43	380 212017 M43	400 214013 M43	420 218011 M44	26806
ATNOR	300 144010 M38	320 172012 M39	340 200014 M39	360 204012 M42	380 208010 M42	400 212008 M42	420 220007 M43	25082
RADON	300 68014 M40	320 128009 M40	340 190004 M39	360 204004 M42	380 218004 M42	400 224004 M42	420 224004 M43	28073
KERUK	300 52022 M42	320 42009 M41	340 40004 M40	360 06003 M43	380 332003 M42	400 304003 M42	420 282003 M43	30464
TEGMO	300 64035 M49	320 58031 M46	340 56030 M44	360 52022 M46	380 48015 M45	400 46010 M44	420 48008 M45	30594
TEMOT	300 60051 M45	320 58052 M46	340 56053 M47	360 50033 M44	380 48027 M44	400 48022 M45	420 52016 M45	34146
PTG	300 48055 M42	320 46053 M46	340 46051 M49	360 44046 M52	380 42041 M53	400 44032 M52	420 48024 M50	37276
KUMIR	300 62048 M41	320 58047 M46	340 56047 M51	360 56042 M54	380 56038 M58	400 56027 M56	420 56021 M54	37909
TUPEG	300 96038 M41	320 98038 M46	340 102038 M51	360 100035 M55	380 98032 M59	400 88023 M57	420 78019 M55	38324
STONI	300 102037 M41	320 106038 M46	340 110039 M51	360 104036 M55	380 98033 M59	400 86026 M57	420 78021 M54	37946
ULGUN	300 106035 M41	320 108038 M46	340 110041 M51	360 104037 M54	380 100032 M58	400 90025 M56	420 82021 M54	37713
KOVER	300 108034 M42	320 116040 M47	340 124047 M52	360 116041 M55	380 108035 M58	400 86020 M55	420 82017 M53	38597



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	PLN-10000	PLN-8000	PLN-6000	PLN-4000	PLN-2000	PLN	PLN+2000	TROPO
STELA	300 114039 M42	320 114038 M47	340 116037 M52	360 98031 M54	380 78026 M55	400 70021 M54	420 72018 M52	36782
KUPEN	300 118041 M43	320 104033 M47	340 90025 M51	360 76023 M54	380 60022 M55	400 52019 M54	420 58017 M52	37041
HMN	300 118041 M43	320 104033 M47	340 92025 M51	360 76023 M54	380 60022 M55	400 52019 M54	420 58017 M52	37023
NEMON	300 98025 M42	320 74023 M46	340 50022 M49	360 48021 M52	380 48021 M56	400 48018 M54	420 54016 M52	38526
KESEB	300 68022 M40	320 56021 M45	340 44020 M49	360 46020 M52	380 50020 M56	400 58018 M54	420 58016 M52	38095
PIGUR	300 94014 M39	320 98015 M45	340 102016 M50	360 102015 M53	380 102014 M54	400 92013 M54	420 76013 M52	36548
SADER	300 126025 M40	320 128023 M45	340 130021 M50	360 128018 M52	380 126015 M53	400 110013 M52	420 78013 M50	36878
TUDMI	300 126025 M40	320 128023 M45	340 130021 M50	360 126018 M52	380 124015 M53	400 108013 M52	420 76013 M50	36886
OGPAS	300 128035 M40	320 130033 M45	340 134031 M49	360 124024 M52	380 118018 M52	400 102015 M51	420 76015 M50	36337
OKATI	300 36036 M41	320 36035 M45	340 36035 M48	360 30026 M49	380 30023 M50	400 28019 M50	420 28015 M49	34620
POBEM	300 08034 M40	320 04036 M45	340 00039 M49	360 00032 M52	380 00025 M53	400 356021 M53	420 352019 M51	36303
RURAD	300 348020 M39	320 342017 M45	340 338015 M50	360 338016 M53	380 338019 M55	400 338021 M54	420 338019 M52	37309
LIKNU	300 346030 M41	320 342031 M45	340 338033 M49	360 334032 M52	380 332031 M56	400 326027 M54	420 324025 M52	38606
SODMU	300 336030 M40	320 334033 M45	340 334036 M49	360 330036 M52	380 328036 M56	400 320034 M55	420 316028 M53	38226
TIRAT	300 312023 M37	320 312028 M42	340 312034 M47	360 308038 M54	380 304042 M57	400 292035 M55	420 290032 M53	39448
RULEP	300 292021 M37	320 290023 M43	340 290026 M48	360 290030 M54	380 290035 M56	400 286035 M56	420 282031 M54	40782
LUMAK	300 238021 M37	320 242023 M42	340 248026 M47	360 252030 M53	380 256034 M56	400 252035 M55	420 252035 M53	39876
OLUGA	300 220023 M37	320 228026 M43	340 236029 M48	360 240033 M54	380 244037 M57	400 240035 M54	420 240034 M53	39216
ULGAM	300 214028 M38	320 216029 M43	340 220031 M48	360 222033 M51	380 224035 M55	400 230039 M55	420 230034 M54	38547
VAREG	300 214028 M38	320 216029 M43	340 220031 M48	360 222033 M51	380 224035 M55	400 230039 M55	420 230034 M54	38565
REKSO	300 206031 M38	320 208033 M43	340 210035 M48	360 214036 M52	380 218038 M56	400 226039 M55	420 226035 M54	37926
BD	300 206037 M38	320 206039 M43	340 206041 M48	360 208042 M52	380 210043 M56	400 220044 M55	420 222037 M53	38430
SW	300 206030 M38	320 208028 M43	340 212027 M47	360 212029 M50	380 214032 M55	400 222039 M54	420 226038 M53	38336
BESTA	300 206030 M38	320 208028 M43	340 212027 M47	360 212029 M50	380 214032 M55	400 222039 M54	420 226038 M53	38287
RUGEL	300 206030 M38	320 208028 M43	340 212027 M47	360 212029 M50	380 214032 M55	400 222039 M54	420 226038 M53	38287
GEKLA	300 206030 M38	320 208028 M43	340 212027 M47	360 212029 M50	380 214032 M55	400 222039 M54	420 226038 M53	38275
AMTAM	300 206030 M38	320 208028 M43	340 212027 M47	360 212029 M50	380 214032 M55	400 222039 M54	420 226038 M53	38275

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	PLN-10000	PLN-8000	PLN-6000	PLN-4000	PLN-2000	PLN	PLN+2000	TROPO
R327	300 204035 M39	320 206036 M43	340 210038 M46	360 212040 M49	380 214042 M53	400 222047 M52	420 226044 M52	38377
R321L	300 204035 M39	320 206036 M43	340 210038 M46	360 212040 M49	380 214042 M53	400 222047 M52	420 226044 M52	38377
IF14L	300 204035 M39	320 206036 M43	340 210038 M46	360 212040 M49	380 214042 M53	400 222047 M52	420 226044 M52	38377
DD141	300 204035 M39	320 206036 M43	340 210038 M46	360 212040 M49	380 214042 M53	400 222047 M52	420 226044 M52	38377
UUDD	300 204035 M39	320 206036 M43	340 210038 M46	360 212040 M49	380 214042 M53	400 222047 M52	420 226044 M52	38377