



भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
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Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow - 226 011
DID (0522) 2450115
DID (0522) 2465310



No. SV.AS.SRI.

Date: 17.01.2020

Principal Chief Mechanical Engineers,

1. Central Railway, CSTM, Mumbai - 400 001
2. Eastern Railway, Fairly Place, Kolkata- 700 001
3. Northern Railway, Baroda House, New Delhi-110 001
4. Southern Railway, Park Town, Chennai - 600 003
5. South Central Railway, Secunderabad-500 071
6. South Eastern Railway, Garden Reach, Kolkata-700 043
7. North Eastern Railway, Gorakhpur-273 001
8. North East Frontier Railway, Maligaon, Guwahati- 781 011
9. Western Railway, Churchgate, Mumbai-400020
10. East Central Railway, Hazipur-844 101
11. East Coast Railway, Railway Complex, Bhubaneswar- 751 023
12. North Central Railway, Allahabad-211 001
13. North Western Railway, Jaipur-302 006
14. South Western Railway, Hubli- 580023
15. West Central Railway, Jabalpur- 482 001
16. South East Central Railway, Bilaspur- 495 004
17. Konkan Railway Corporation Ltd., Corporate office, Belapur Bhawan, Navi Mumbai – 14

Sub: Failure of air spring (140 KN capacity) in LHB coaches supplied by M/s Tayal & Co., Mohali.

Ref: 1) ICF letter no. MD/D/FBD/41 F dated 22.10.2019.

2) ICF letter no. MD/D/FBD/41 dated 07.01.2020 (copy enclosed).

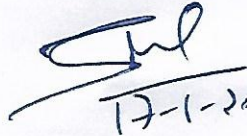
In reference to above, ICF has reported cases of air bellow rubbing (in SWR and Konkan Railway) with antiroll bar link. Therefore, firm was advised to submit investigation report of failure cases. After analysis, it has been found that M/s Tayal has supplied some oversize air bellows whose diameter in inflated condition was approx. Ø 720 mm against specified space envelope of Ø 700 mm.

M/s Tayal has identified purchase orders and inspection certificates against which suspected air springs with oversize air bellow were supplied. Fitment details of air springs supplied against aforesaid purchase orders and inspection certificates were asked from ICF. Vide letter under ref. (2), ICF has provided the fitment details of all air spring (140 KN capacity) supplied by M/s Tayal & Co. against the identified purchase orders and inspection certificates.

Zonal Railways are advised to measure the diameter of air bellows in fully inflated condition under design height (287 mm to 292 mm) in the coaches & bogies listed in ICF letter under ref. (2). If diameter of air bellow is found more than Ø 700 mm, M/s Tayal is to be instructed to provide replacement of that air bellow with new air bellow of correct size, under advice to this office.

This should be done on priority.

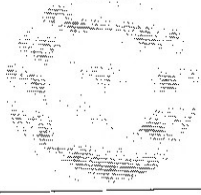
DA: As above


17-1-2020
(Shobhit Pratap Singh)
Jt. Director/Carriage
for Director General/Carriage

Copy to:

1. PCME, Integral Coach Factory, Chennai.
2. PCME, Modern Coach Factory, Rae Bareli.
3. PCME, Rail Coach Factory, Kapurthala
4. DME/Coaching, Railway Board, Rail Bhawan, New Delhi.
5. M/s Tayal & Co., D – 85, Phase VII, SAS Nagar, Mohali, Punjab. - For deputing multiple teams to measure diameter of air bellows of air springs, mentioned in list provided by ICF and replace the oversize air bellows with new air bellows of correct size. This should be completed in next 20 days.

} For kind information.



सवारी डिब्बा कारखाना / INTEGRAL COACH FACTORY

चेन्नै / CHENNAI - 600 038.

Telefax: 044-26261872 / Railway : 46809

Email: smebdicf@gmail.com

मु.अ.इं./यां का कार्यालय/O/o C.D.E./Mech.
दि./ Date: 07.01.2020

सं /No. MD/D/Bogie/41

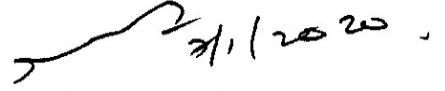
**Jt. Director /Carriage
RDSO**

Kind attn: Mr Shobhit Pratap Singh

विषय /Sub: Fitment details of 140 KN Air spring supplied by M/s Tayal & co
संदर्भ /Ref: RDSO letter no SV.AS.SRI dt 05.12.2019.

With reference to the above subject, fitment details of 140 kN air spring supplied by Ms Tayal & co is forwarded for your further necessary action.(Copy enclosed)

Encl: Fitment Details


वरि.यां.इं./डी-1/ SME/D-1

कृते महा प्र./यां.(अभिकल्प)/for GM/Mech.Design

Copy to: M/s Tayal & co,
D-85, Phase-VII, Industrial area,
S.A.S nagar, Mohali-165055

No.MI/3A

SME/D-I

INTEGRAL COACH FACTORY, CHENNAI-38.

Office of the CME/QA
Dated: 3/1/2020

Sub: Fitment of 140 KN Airspring of Tayal make.
Ref: i) RDSO lr.no.SV.AS.SRI dt 5/12/19.
ii) AME/QA/Shell lr.no.MI/36 dt 3/1/2020

Please find herewith the fitment details of 526 nos of 140KN Airsprings supplied by M/s Tayal make under IC no. 201289,201303 and 212787.

This is for your information and necessary action.

Dy.CME/QA 31/1/2020

copy to
CME/QA

TAYAL MAKE AIR SPRING FITTED COACHES SINCE 08.10.2018

SL NO	TYPE	RLY-CHNO	SHELL NO	BOGIE ASSY DT	ASR SUPPLIER	ASR NO1	ASR NO2	ASR NO3	ASR NO4	BOGIE AS	BOGIE NAS
1	LSCN/ASR	SW 182098	1026	09.10.18	TAYAL		1961			SAR00135(759)WIL	
2	LSCN/ASR	SW 182104	1060	11.10.18	TAYAL	1937	1967			SAR00148(809)WIL	
3	LSCN/ASR	SW 182113	1068	15.10.18	TAYAL&TAYAL	1994	1987		1974	SAR00158(02)SIMPLE	SAR00157(05)SIMPLE
4	LSCN/ASR	SW 182180	987	17.10.18	TAYAL	2060	2222			SAR00170(822)WIL	
5	LSCN/ASR	SW 182192	1136	23.10.18	TAYAL&TAYAL	2028	2029		1989	SAR00180(15)SIMPLE	
6	LSCN/ASR	SW 182189	1123	24.10.18	TAYAL&TAYAL	2604	2499	2523	2494	SAR00186(859)WIL	SAR00179(19)SIMPLE
7	LSCN/ASR	SW 182194	1066	25.10.18	TAYAL&TAYAL	1966	2046	1977	1992	SAR00192(862)WIL	SAR00187(853)WIL
8	LSCN/ASR	SW182199	1126	26.10.18	TAYAL&TAYAL	2481			2056	SAR00194(427)WIL	SAR00193(657)WIL
9	LSCN/ASR	SW182193	1139	26.10.18	TAYAL&TAYAL	2645	2071	2131	2497	SAR00197(846)WIL	SAR00195(881)WIL
10	LSCN/ASR	SW182195	1125	26.10.18	TAYAL	2392	2495			SAR00199(798)WIL	SAR00196(410)WIL
11	LSCN/ASR	SW182198	1122	27.10.18	TAYAL&TAYAL	2622	2584	2406	2411	SAR00200(401)WIL	
12	LSCN/ASR	SW182196	1140	29.10.18	TAYAL	2629	2608			SAR00204(835)WIL	SAR00201(895)WIL
13	LSCN/ASR	SW182205	1141	30.10.18	TAYAL	2611	2051			SAR00208(883)WIL	
14	LSCN/ASR	SER182330	1152	30.10.18	TAYAL&TAYAL	2611	2609		1995	SAR00211(755)ECBT	SAR00210(460)WIL
15	LSCN/ASR	SW182203	1124	30.10.18	TAYAL&TAYAL	2476	2476	2492		SAR00212(553)WIL	SAR00213(844)WIL
16	LSCN/ASR	SER182334	1154	31.10.18	TAYAL&TAYAL	2424	2414	2381	2410	SAR00214(904)WIL	SAR00215(827)WIL
17	LSCN/ASR	SW182204	1129	31.10.18	TAYAL&TAYAL	2387	2388	2605	2539	SAR00216(845)WIL	SAR00217(754)ECBT
18	LSCN/ASR	SER 182333	1153	31.10.18	TAYAL&TAYAL	2486	2489	2037		SAR00218(909)WIL	SAR00219(872)WIL
19	LSCN/ASR	SW 182200	1127	31.10.18	TAYAL&TAYAL	2557	2363			SAR00223(807)WIL	SAR00222(897)WIL
20	LSCN/ASR	SW 182202	1131	01.11.18	TAYAL		2506			SAR00224(889)WIL	
21	LSCN/ASR	SER 182337	1155	02.11.18	TAYAL&TAYAL	2386	2377	2606	2246	SAR00226(805)WIL	SAR00227(914)WIL
22	LSCN/ASR	SER 182338	1130	02.11.18	TAYAL&TAYAL	2104	2614	2644	2220	SAR00228(920)WIL	SAR00229(823)WIL
23	LSCN/ASR	SER 182335	1156	03.11.18	TAYAL	2624	2613			SAR00232(770)ECBT	
24	LSCN/ASR	SER 182369	1160	07.11.18	TAYAL	2418	2573			SAR00239(901)WIL	
25	LSCN/ASR	SER 182371	1144	08.11.18	TAYAL&TAYAL	2569	1971	1984	2001	SAR00240(915)WIL	SAR00241(921)WIL
26	LSCN/ASR	SER 182370	1142	08.11.18	TAYAL&TAYAL	2479	2480		2557	SAR00242(907)WIL	SAR00243(799)WIL
27	LSCN/ASR	SER 182377	1145	09.11.18	TAYAL&TAYAL	2412	2382	2568	2531	SAR00249(837)WIL	SAR00248(753)ECBT
28	LSCN/ASR	SER 182374	1148	12.11.18	TAYAL&TAYAL	1947	2563	2607	2616	SAR00252(873)WIL	SAR00253(381)BEC
29	LSCN/ASR	SER 182376	1173	12.11.18	TAYAL		2515			SAR00255(384)BEC	
30	LSCN/ASR	SER 182405	1159	12.11.18	TAYAL	2508	2623			SAR00256(373)BEC	
31	LSCN/ASR	SER 182398	1150	13.11.18	TAYAL&TAYAL	2558	2359	2517	2561	SAR00259(941)WIL	SAR00258(589)WIL
32	LSCN/ASR	SER 182400	1176	14.11.18	TAYAL	2482	2480			SAR00262(379)BEC	
33	LSCN/ASR	SER 182401	1147	15.11.18	TAYAL&TAYAL	2378	2487	2360	2365	SAR00264(939)WIL	SAR00265(768)ECBT
34	LSCN/ASR	SER 182404	1212	16.11.18	TAYAL&TAYAL	2552	2630	2560	2368	SAR00268(522)WIL	SAR00269(570)WIL
35	LSCN/ASR	SER182402	1151	16.11.18	TAYAL&TAYAL	2413	2553	2010	1982	SAR00271(923)WIL	SAR00270(896)WIL
36	LSCN/ASR	SER 182406	1163	19.11.18	TAYAL&TAYAL	2578	2580	2166	1990	SAR00272(945)WIL	SAR00273(902)WIL
37	LSCN/ASR	SER 182515	1177	21.11.18	TAYAL&TAYAL	2379	2375	1993	2016	SAR00276(515)WIL	SAR00277(874)WIL
38	LSCN/ASR	SER 182517	1162	21.11.18	TAYAL&TAYAL	2483	2590	2423	2498	SAR00278(811)WIL	SAR00279(851)WIL
39	LSCN/ASR	SER 182523	1213	22.11.18	TAYAL&TAYAL	2426	2425	2393	2358	SAR00280(769)ECBT	SAR00281(520)WIL
40	LSCN/ASR	SER 182520	1166	22.11.18	TAYAL&TAYAL	2369	2371	2485	2401	SAR00282(891)WIL	SAR00283(766)WIL
41	LSCN/ASR	SER 182527	1179	23.11.18	TAYAL&TAYAL	2579	2585	2383	2391	SAR00286(966)WIL	SAR00287(953)WIL
42	LSCN/ASR	SER 182521	1170	23.11.18	TAYAL	2370	2376			SAR00288(952)WIL	
43	LSCN/ASR	SER 182522	1180	24.11.18	TAYAL&TAYAL	2389	2641	2551	2556	SAR00290(987)WIL	SAR00291(973)WIL
44	LSCN/ASR	SER 182518	1168	24.11.18	TAYAL	2583	2595			SAR00292(935)WIL	
45	LSCN/ASR	SER 182525	1214	24.11.18	TAYAL&TAYAL	2632	2587	1976	2212	SAR00294(865)WIL	SAR00295(852)WIL
46	LSCN/ASR	SER 182529	1164	26.11.18	TAYAL&TAYAL	2400	2427	2374	2633	SAR00296(989)WIL	SAR00297(967)WIL
47	LSCN/ASR	NW 182681	1216	26.11.18	TAYAL&TAYAL	2618	2651	2488	2361	SAR00298(950)WIL	SAR00299(975)WIL
48	LSCN/ASR	SER 182528	1181	27.11.18	TAYAL	2576	2581			SAR00301(796)WIL	


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49	USCN/ASR	NW182688	1215	27.11.18	TAYAL&TAYAL	2415	2394	2429	2373	SAR00302(916)WIL	SAR00303(762)WIL
50	USCN/ASR	NW 182690	1217	27.11.18	TAYAL	2525	2660			SAR00305(980)WIL	
51	USCN/ASR	NW 182689	1165	28.11.18	TAYAL&TAYAL	2428	2422	2417	2416	SAR00306(748)WIL	SAR00307(988)WIL
52	USCN/ASR	NW 182686	1169	28.11.18	TAYAL&TAYAL	2588	2547	2364	2390	SAR00308(800)WIL	SAR00309(836)WIL
53	USCN/ASR	NW 182682	1167	29.11.18	TAYAL&TAYAL	2409	2548	2399	2598	SAR00310(1004)WIL	SAR00311(488)WIL
54	USCN/ASR	NW 182683	1171	29.11.18	TAYAL&TAYAL	2403	2380	2362	2625	SAR00312(1000)WIL	SAR00315(912)WIL
55	USCN/ASR	N F 182692	1193	30.11.18	TAYAL&TAYAL	2384	2357	2474	2484	SAR00316(996)WIL	SAR00317(954)WIL
56	USCN/ASR	NW 182684	1182	30.11.18	TAYAL&TAYAL	2478	2475	2430	2385	SAR00318(947)WIL	SAR00319(880)WIL
57	USCN/ASR	N F 182693	1219	30.11.18	TAYAL&TAYAL	2519	2477	2395	2397	SAR00320(628)WIL	SAR00321(626)WIL
58	USCN/ASR	NW 182687	1191	01.12.18	TAYAL	2593	2577			SAR00322(768)WIL	
59	USCN/ASR	N F 182695	1149	01.12.18	TAYAL		2521			SAR00323(932)WIL	
60	USCN/ASR	N F 182694	1220	03.12.18	TAYAL&TAYAL	2634	2582	2592	2586	SAR00325(982)WIL	SAR00326(942)WIL
61	USCN/ASR	N F 182691	1185	03.12.18	TAYAL	2421	2396			SAR00328(948)WIL	
62	USCN/ASR	SER 182911	1186	07.12.18	TAYAL	2794				SAR00329(899)WIL	
63	USCN/ASR	NF 182698	1184	07.12.18	TAYAL&TAYAL	2626	2575	2640		SAR00331(905)WIL	SAR00333(903)WIL
64	USCN/ASR	N F 182696	1194	07.12.18	TAYAL	2402	2372			SAR00334(944)WIL	
65	USCN/ASR	NF 182699	1196	07.12.18	TAYAL	2367	2366			SAR00335(876)WIL	
66	USCN/ASR	NF 182700	1198	10.12.18	TAYAL	2636	2599			SAR00340(775)ECBT	
67	USCN/ASR	NF 182845	1203	10.12.18	TAYAL	2572	2553			SAR00341(791)ECBT	
68	USCN/ASR	SER 182913	1202	11.12.18	TAYAL	2610				SAR00345(651)ECBT	
69	USCN/ASR	SER 182924	1197	11.12.18	TAYAL	2635	2473			SAR00347(780)ECBT	
70	USCN/ASR	SER 182917	1224	11.12.18	TAYAL	2631	2649			SAR00348(772)ECBT	
71	USCN/ASR	SER 182912	1200	11.12.18	TAYAL&TAYAL	2652	2650	2612	2617	SAR00350(674)ECBT	SAR00351(831)WIL
72	USCN/ASR	SER 182914	1190	12.12.18	TAYAL	2535	2544			SAR00352(670)ECBT	
73	USCN/ASR	SER 182916	1223	12.12.18	TAYAL	2533	2601			SAR00353(946)WIL	
74	USCN/ASR	NFR 182847	1204	12.12.18	TAYAL	2619	2602			SAR00357(646)ECBT	
75	USCN/ASR	SW 191703	1298	01.02.19	TAYAL&TAYAL	2698	2703	2766	2796	SAR00527(685)ECBT	SAR00528(590)WIL
76	USCN/ASR	SW 191704	1306	04.02.19	TAYAL	2741	2769			SAR00532(694)ECBT	
77	USCN/ASR	SW 191721	1305	05.02.19	TAYAL&TAYAL	2776	2738	2782	2729	SAR00533(621)WIL	SAR00534(686)ECBT
78	USCN/ASR	SW 191702	1309	05.02.19	TAYAL&TAYAL	2728	2742	2772	2727	SAR00535(639)WIL	SAR00536(642)WIL
79	USCN/ASR	SW 191707	1299	06.02.19	TAYAL&TAYAL	2739	2750	2767	2786	SAR00537(613)WIL	SAR00538(595)WIL
80	USCN/ASR	SW 191710	1312	07.02.19	TAYAL		2017			SAR00543(692)ECBT	
81	USCN/ASR	SW 191712	1313	08.02.19	TAYAL&TAYAL	2755	2780	2730	2044	SAR00546(695)ECBT	SAR00545(693)ECBT
82	USCN/ASR	SW 191711	1300	08.02.19	TAYAL	2021	2020			SAR00548(602)WIL	
83	USCN/ASR	SW 191709	1276	09.02.19	TAYAL&TAYAL	2491	2783	2004		SAR00549(606)WIL	SAR00550(697)ECBT
84	USCN/ASR	SW 191715	1377	09.02.19	TAYAL		2377			SAR00552(604)WIL	
85	USCN/ASR	SW 191718	1317	11.02.19	TAYAL&TAYAL	2749			2053	SAR00558(622)WIL	SAR00557(602)WIL
86	USCN/ASR	SW 191716	1378	12.02.19	TAYAL&TAYAL		2518	2039		SAR00559(1188)WIL	SAR00560(614)WIL
87	USCN/ASR	SW 191720	1318	14.02.19	TAYAL		1946			SAR00567(1176)WIL	
88	USCN/ASR	SR 192075	1326	16.02.19	TAYAL	1939				SAR00583(672)ECBT	
89	USCN/ASR	SR 192080	1342	18.02.19	TAYAL&TAYAL	1949			1975	SAR00593(1219)WIL	SAR00594(642)ECBT
90	USCN/ASR	SR 192081	1328	19.02.19	TAYAL	2789	2790			SAR00601(687)ECBT	
91	USCN/ASR	SR 192102	1314	25.02.19	TAYAL	2768	2784			SAR00626(665)ECBT	
92	USCN/ASR	SR 192100	1270	26.02.19	TAYAL&TAYAL	2788	2780	1933	1934	SAR00633(664)ECBT	SAR00634(521)WIL
93	USCN/ASR	SER 191772	1351	01.03.19	TAYAL		1936			SAR00660(517)WIL	
94	USCN/ASR	SER 191781	1363	05.03.19	TAYAL	2452	2497			SAR00679(638)ECBT	
95	USCN/ASR	SER191792	1366	07.03.19	TAYAL&TAYAL	2502	2764	2654	2670	SAR00693(792)ECBT	SAR00694(1338)WIL
96	USCN/ASR	SER 191791	1396	08.03.19	TAYAL	2597	2574			SAR00702(793)ECBT	
97	USCN/ASR	SWR 195187	1428	05.04.19	TAYAL	2761	2419			SAR00856(1520)WIL	
98	USCN/ASR	ER 194416	1803	22.07.19	TAYAL&TAYAL	1973	1991	2055	1974	SAR01295(2133)WIL	SAR01296(2203)WIL
99	USCN/ASR	ER 194421	1791	23.07.19	TAYAL&TAYAL	1935	2007	2045	1929	SAR01306(2174)WIL	SAR01304(2185)WIL
100	USCN/ASR	ECOR 194886	1859	23.07.19	TAYAL	1988	2040			SAR01306(10)MPL	

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101	LSCN/ASR	ECOR 194894	1857	24.07.19	TAYAL&TAYAL	2038	2012	1933	1944	SAR01307(22.3)WIL	SAR01308(2182)WIL
102	LSCN/ASR	ECOR 194889	1792	24.07.19	TAYAL&TAYAL	1932	2059	1945	1964	SAR01309(2089)WIL	SAR01310(2114)WIL
103	LSCN/ASR	ECOR 194895	1861	25.07.19	TAYAL&TAYAL	2054	2051	2053	1930	SAR01311(2046)WIL	SAR01312(2122)WIL
104	LSCN/ASR	ECOR 194893	1794	25.07.19	TAYAL&TAYAL	1971	2002	1963	1989	SAR01313(1951)WIL	SAR01314(1819)WIL
105	LSCN/ASR	ECOR 194900	1805	25.07.19	TAYAL&TAYAL	1952	1978	1937	1983	SAR01315(2165)WIL	SAR01316(1959)WIL
106	LSCN/ASR	ECOR 194899	1804	25.07.19	TAYAL&TAYAL	2031	2050	1969	1950	SAR01317(2161)WIL	SAR01318(1919)WIL
107	LSCN/ASR	ECOR 194897	1863	26.07.19	TAYAL&TAYAL	1985	2009	1940	1956	SAR01319(2223)WIL	SAR01320(2111)WIL
108	LSCN/ASR	ECOR 194896	1864	26.07.19	TAYAL&TAYAL	1985	2015	1943	1968	SAR01321(2171)WIL	SAR01322(1925)WIL
109	LSCN/ASR	ECOR 194898	1865	27.07.19	TAYAL&TAYAL	2005	2048	1992	2034	SAR01323(1968)WIL	SAR01324(1868)WIL
110	LSCN/ASR	ECOR 194904	1795	27.07.19	TAYAL&TAYAL	1972	1967	2025	1951	SAR01325(2224)WIL	SAR01326(1872)WIL
111	LSCN/ASR	ECOR 194902	1807	29.07.19	TAYAL&TAYAL	1942	2003	1931	1941	SAR01327(1805)WIL	SAR01328(2126)WIL
112	LSCN/ASR	ECOR 194905	1796	29.07.19	TAYAL&TAYAL	1993	1998	2027	1948	SAR01329(2004)WIL	SAR01330(2014)WIL
113	LSCN/ASR	ECOR 194910	1947	29.07.19	TAYAL&TAYAL	2052	2023	2024	1976	SAR01331(2243)WIL	SAR01332(2007)WIL
114	LSCN/ASR	ECOR 194907	1823	29.07.19	TAYAL&TAYAL	2041	1986	1987	2042	SAR01333(2126)WIL	SAR01334(1960)WIL
115	LSCN/ASR	ECOR 194906	1811	30.07.19	TAYAL&TAYAL	1977	2043	1957	1962	SAR01335(1883)WIL	SAR01336(2219)WIL
116	LSCN/ASR	ECOR 194908	1808	30.07.19	TAYAL&TAYAL	2013	1981	2000	1947	SAR01337(1892)WIL	SAR01338(1928)WIL
117	LSCN/ASR	ECOR 194909	1866	30.07.19	TAYAL&TAYAL	1982	2011	2047	2035	SAR01339(1962)WIL	SAR01340(2254)WIL
118	LSCN/ASR	ECOR 194912	1950	31.07.19	TAYAL&TAYAL	1990	2057	1954	2030	SAR01341(2215)WIL	SAR01342(1960)WIL
119	LSCN/ASR	ECOR 194913	1822	31.07.19	TAYAL&TAYAL	2010	1960	1979	1934	SAR01343(1887)WIL	SAR01344(2250)WIL
120	LSCN/ASR	ECOR 194911	1809	31.07.19	TAYAL&TAYAL	2011	1953	2014	2019	SAR01345(1782)WIL	SAR01346(1895)WIL
121	LSCN/ASR	ECOR 194914	1948	31.07.19	TAYAL&TAYAL	1995	2058	2001	2009	SAR01347(2289)WIL	SAR01348(2303)WIL
122	LSCN/ASR	ECOR 194915	1956	01.08.19	TAYAL&TAYAL	1930	2058	1970	1999	SAR01351(1910)WIL	SAR01350(2242)WIL
123	LSCN/ASR	ECOR 194917	1824	03.08.19	TAYAL	2036	1959			SAR01353(2121)WIL	SAR01352(2168)WIL
124	LSCN/ASR	ECOR 194920	1814	05.08.19	TAYAL	1961	1939			SAR01359(2132)WIL	
125	LSCN/ASR	ECOR 194924	1813	05.08.19	TAYAL	1996	2006	2018	1958	SAR01365(2030)WIL	
126	LSCN/ASR	ECOR 194923	1810	05.08.19	TAYAL&TAYAL	1938	2021	1965	2022	SAR01369(1781)WIL	SAR01370(1861)WIL
127	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2045	2044			SAR01371(2158)WIL	SAR01372(2150)WIL
128	LSCN/ASR	ECOR 194923	1981	20.08.19	TAYAL	2762	2709	2754	2723	SAR01471(1917)WIL	SAR01472(2167)WIL
129	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2730	2732	2737	2752	SAR01483(2411)WIL	SAR01484(2421)WIL
130	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2714	2733	2691	2731	SAR01486(2427)WIL	SAR01490(2447)WIL
131	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01487(2397)WIL	SAR01489(2442)WIL
132	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01485(2297)WIL	SAR01488(2199)WIL
133	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01477(2402)WIL	
134	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01479(1842)WIL	
135	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01478(2435)WIL	
136	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01483(2411)WIL	
137	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01486(2427)WIL	
138	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01487(2397)WIL	
139	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01485(2297)WIL	
140	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01477(2402)WIL	
141	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01479(1842)WIL	
142	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01478(2435)WIL	
143	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01483(2411)WIL	
144	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01486(2427)WIL	
145	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01487(2397)WIL	
146	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01485(2297)WIL	
147	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01477(2402)WIL	
148	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01479(1842)WIL	
149	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01478(2435)WIL	
150	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01483(2411)WIL	
151	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01486(2427)WIL	
152	LSCN/ASR	ECOR 194926	1981	20.08.19	TAYAL	2701	2744	2710		SAR01487(2397)WIL	

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153	LSCN/ASR	SCR 195246	1586	27.08.19	TAYAL&TAYAL	2729		2743	2722	AA01299	AA01300
154	LSCN/ASR	SCR 195252	1590	28.08.19	TAYAL&TAYAL	2761	2755	2718	2770	AA01301	AA01302
155	LSCN/ASR	ECR 196501	1709	18.09.19	TAYAL		2695			AA01330	
156	L5-5	ECR 193215	1044	05.04.19	TAYAL	2443	2545			AV02483	
157	L5-5	WR 191577	990	27.03.19	TAYAL	2468	2546			AV02450	
158	L5-5	SCR 191629	993	26.03.19	TAYAL	2445	2550			AV02445	
159	L5-5	SCR 191630	994	26.03.19	TAYAL&TAYAL	2431	2437	2447	2542	AV02444	AV02443
160	L5-5	SW 191603	981	25.03.19	TAYAL	2433	2454			AV02438	
161	L5-5	SW 191598	978	23.03.19	TAYAL	2500	2543			AV02429	
162	L5-5	SW 191601	969	23.03.19	TAYAL&TAYAL	2444	2455	2441	2448	AV02428	AV02427
163	L5-5	SW 191599	982	23.03.19	TAYAL	2434	2436			AV02424	
164	L5-5	SW 191596	977	21.03.19	TAYAL	2451	2531			AV02421	
165	L5-5	WR 191578	924	20.03.19	TAYAL	2457	2536			AV02419	
166	L5-5	SCR 192306	1003	19.03.19	TAYAL	2420	2449			AV02410	
167	L5-5	WR 191574	996	18.03.19	TAYAL&TAYAL	2407	2461		2438	AV02404	AV02403
168	L5-5	SCR 191631	989	16.03.19	TAYAL	2509	2513			AV02397	
169	L5-5	SW 191594	865	12.03.19	TAYAL&TAYAL	2435	2453	2559	2566	AV02368	AV02367
170	L5-5	NCR182323	684	03.11.18	TAYAL	2047				AV01791	
171	L5-5	NR191618	963	08.03.19	TAYAL&TAYAL	2446	2465	2432	2439	AV02343	AV02344
172	L5-5	ECR191588	962	08.03.19	TAYAL&TAYAL	2472	2648	2637	2647	AV02341	AV02342
173	L5-5	EC 191589	864	09.03.19	TAYAL&TAYAL	2467	2469	2462	2470	AV02346	AV02345
174	L5-5	NR 191625	970	11.03.19	TAYAL	2405	2408			AV02360	
175	L5-5	NE 191605	971	12.03.19	TAYAL	2442	2460			AV02363	
176	LSCN/ASR	SER191805	1421	10.4.19	TAYAL	2511				AA01140	
177	LSCN/ASR	SWR191732	1119	2.4.19	TAYAL	2494	2534			AA01125	
178	LSCN/ASR	SWR182201	1128	14.11.18	TAYAL&TAYAL	2562/T	2564/T	1945	1956	SAR00207(887)WIL	SAR00206(866)WIL
179	LSCN/ASR	SWR(KRC)191306	1295	5.2.19	TAYAL&TAYAL	2757	2678	2657	2725	SAR00502(533)WIL	SAR00501(562)WIL
180	LSCN/ASR	SR192101	1348	8.3.19	TAYAL	1934				SAR00631(325)BEC	
181	LSCN/ASR	SWR(KRC)191297	1272	31.1.19	TAYAL&TAYAL	2671/	2740	2701	2711	SAR00489(627)WIL	SAR00490(542)WIL
182	LSCN/ASR	SWR(KRC)191310	1266	7.2.19	TAYAL&TAYAL	2663	2658	2709	2705	SAR00511(526)WIL	SAR00512(523)WIL
183	LSCN/ASR	SWR(KRC)191309	1301	6.2.19	TAYAL&TAYAL	2659	2753	2677/	2701	SAR00503(637)WIL	SAR00504(1102)WIL
184	LSCN/ASR	SWR(KRC)191312	1296	7.2.19	TAYAL&TAYAL	2691	2661	2712	2718	SAR00510(564)WIL	SAR00509(433)WIL
185	LSCN/ASR	SWR191700	1302	13.2.19	TAYAL&TAYAL	2681	2662	2673	2699	SAR00519(561)WIL	SAR00520(600)WIL
186	LSCN/ASR	SWR191698	1259	13.2.19	TAYAL				2664	SAR00522(689)ECBT	
187	LSCN/ASR	SWR(KRC)191282	1292	28.1.19	TAYAL&TAYAL	2563	2665	2690	2760	SAR00471(1134)WIL	SAR00472(1140)WIL
188	LSCN/ASR	SWR(KRC)191288	1253	29.1.19	TAYAL&TAYAL	2745	2754	2744	2666	SAR00467(1082)WIL	SAR00468(1099)WIL
189	LSCN/ASR	SWR(KRC)191302	1263	4.2.19	TAYAL&TAYAL	2714	2694	2667	2736	SAR00495(528)WIL	SAR00496(567)WIL
190	LSCN/ASR	SWR(KRC)191293	1257	30.1.19	TAYAL&TAYAL	2668/T	2692	2689	2688/T	SAR00485(516)WIL	SAR00486(1097)WIL
191	LSCN/ASR	SWR191697	1275	12.2.19	TAYAL&TAYAL	2734	2781	2672		SAR00515(568)WIL	SAR00516(652)WIL
192	LSCN/ASR	SWR(KRC)191308	1294	6.2.19	TAYAL&TAYAL	2674	2710	2747	2774	SAR00505(931)WIL	SAR00506(576)WIL
193	LSCN/ASR	SWR(KRC)191305	1273	5.2.19	TAYAL&TAYAL		2675	2743	2700	SAR00497(382)WIL	SAR00498(468)WIL
194	LSCN/ASR	SWR(KRC)191304	1265	5.2.19	TAYAL&TAYAL	2706	2755	2655	2676	SAR00500(951)WIL	SAR00499(560)WIL
195	LSCN/ASR	SWR(KRC)191301	1262	4.2.19	TAYAL&TAYAL	2716	2719	2693	2679	SAR00493(495)WIL	SAR00494(957)WIL
196	LSCN/ASR	SER193655	1896	12.9.19	TAYAL&TAYAL	2727	2742	2717/T	2693/T	SAR01480(2428)WIL	SAR01481(2424)WIL
197	LSCN/ASR	SWR(KRC)191311	1274	7.2.19	TAYAL&TAYAL	2653	2680	2776	2505	SAR00507(500)WIL	SAR00508(423)WIL
198	LSCN/ASR	SWR(KRC)191294	1255	30.1.19	TAYAL&TAYAL	2682	2715	2721	2742	SAR00477(1105)WIL	SAR00478(1110)WIL
199	LSCN/ASR	SWR(KRC)191291	1271	30.1.19	TAYAL&TAYAL	2683/T	2645	2722	2686/T	SAR00481(864)WIL	SAR00482(857)WIL
200	LSCN/ASR	SWR(KRC)191299	1209	31.1.19	TAYAL&TAYAL	2660	2684/T	2724	2656/T	SAR00483(818)WIL	SAR00484(821)WIL
201	LSCN/ASR	NER191361	1239	28.1.19	TAYAL&TAYAL	2685	2737	2782	2687	SAR00473(1011)WIL	SAR00474(1115)WIL
202	LSCN/ASR	SWR(KRC)191300	1293	2.2.19	TAYAL&TAYAL	2707	2697	2748	2735	SAR00491(820)WIL	SAR00492(518)WIL
203	LSCN/ASR	SWR(KRC)191290	1279	30.1.19	TAYAL&TAYAL	2522	2504	2773	2498	SAR00469(1076)WIL	SAR00470(1098)WIL
204	LSCN/ASR	SWR 191701	1269	15.2.19	TAYAL&TAYAL	2696	2775	2778	2746	SAR00526(684)ECBT	SAR00525(691)ECBT

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205	LSCN/ASR	SWR(KRC)191289	1256	29.1.19	TAYAL&TAYAL	2777	2763	2731	2779.	SAR00475(1009)WIL	SAR00476(1104)WIL
206	LSCN/ASR	SWR(KRC)191296	1280	31.1.19	TAYAL&TAYAL	2787/T	2777/T	2752	2751	SAR00479(1024)WIL	SAR00480(1027)WIL
207	LSCN/ASR	SWR(KRC)191298	1240	31.1.19	TAYAL&TAYAL	2785/T	2791/T	2762	2713	SAR00488(581)WIL	SAR00487(1113)WIL
208	LSCN/ASR	SWR(KRC)191315	1132	9.2.19	TAYAL&TAYAL	2057	2045	2792.	2758	SAR00517(555)WIL	SAR00518(566)WIL
209	LSCN/ASR	SWR(KRC)191313	1268	8.2.19	TAYAL&TAYAL	2720	2793.	2754	2723	SAR00513(559)WIL	SAR00514(647)WIL
210	LWSCN	SW 191699	1297	30.01.19	TAYAL&TAYAL	2795	2794	2765	2770	SAR00521(696)ECBT	SAR00524(688)ECBT

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