



भारत सरकार GOVERNMENT OF INDIA
रेल मंत्रालय MINISTRY OF RAILWAYS
(रेलवे बोर्ड RAILWAY BOARD)

संख्या 2004/एम(एल)/466/3501

नई दिल्ली, दिनांक: 30.08.2017

महाप्रबन्धक,
डीजल रेल इंजन कारखाना,
वाराणसी।

मुख्य प्रशासनिक अधिकारी,
डीजल इंजन आधुनिकीकरण कारखाना,
पटियाला।

मुख्य यंत्रिक अभियंता,

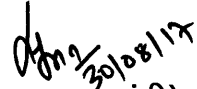
मध्य रेलवे, मुम्बई।
पश्चिम रेलवे, चेन्नई।
दक्षिण पूर्व रेलवे, कोलकाता।

उत्तर रेलवे, नई दिल्ली।
उत्तर पश्चिम रेलवे, जयपुर।
पूर्व रेलवे, कोलकाता।

विषय: डीजल लोकोमोटिव की 180 दिनों के अन्दर विफलता
पुनःनिर्मित/नवनिर्मित.

अप्रैल से जून 2017 की तिमाही के दौरान आवधिक ओवरहॉलिंग में
पुनःनिर्मित/नवनिर्मित डीजल इंजनों की विश्वसनियता रिपोर्ट पूर्णतः विवरण के साथ
संलग्न है। यह रिपोर्ट सभी रेलवे से प्राप्त मासिक पी सी डी ओ पर आधारित है।

उत्पादन इकाईयों/कार्यशालाओं से अनुरोध है कि वे सुधारात्मक कार्यवाही करें।


(सुमन कुमार तांती)
निदेशक यंत्रिक अभियंता (कर्षण)
रेलवे बोर्ड

प्रतिलिपि: मुख्य यंत्रिक अभियंता,

पूर्व मध्य रेलवे, हाजीपुर।
उत्तर मध्य रेलवे, इलाहाबाद।
पूर्वोत्तर सीमांत रेलवे, गुवाहाटी।
दक्षिण पूर्व मध्य रेलवे, बिलासपुर।
पश्चिम रेलवे, मुम्बई।

पूर्व तट रेलवे, भुबनेश्वर।
पूर्वोत्तर रेलवे, गोरखपुर।
दक्षिण मध्य रेलवे, सिकन्दराबाद।
दक्षिण पश्चिम रेलवे, हुबली।
पश्चिम मध्य रेलवे, जबलपुर।

Detail of Causewise failure analysis of WS & PU acct with in 180 Days								
(Apr 2017)								
S.No	Rly's	Loco No.	System	Acct.	Details			
1	ER	14769	3	DMW	FO pipe of APU was defective.			
2	ER	40411	5	DLW	Cab no. 2 horn not working.			
3	ER	40428	5	DLW	Cab no. 2 horn not working. Horn Diaphragm burst.			
4	NR	15037	M	DMW	Throttle handle became free as cam gear pin worked out.			
5	NC	14590	B	CB	MUSD switch of control stand no. 2 found defective.			
6	NC	16621	B	CB	Master breaker was found stuck up during operation.			
7	NE	40399	1	DLW	Power assly. no. 3, 4 & 9 found crack.			
8	NE	16300	E	CB	TM no. 4 grounded.			
9	NW	70589	3	DLW	15 no. injector ecotip seized.			
10	SR	11109	2	GOC	Locking of drive shaft with LO pump.			
11	SC	70604	4	DLW	Water leakage from compressor.			
12	SC	70620	4	DLW	Water leakage from both sides of header of radiator core.			
13	SC	70668	A	DLW	MAB breaker of cab no. 1 & 2 grounded.			
14	SC	70596	4	DLW	Water leakage from water pressure cap.			
15	SE	70563	4	DLW	ESD for less water due to water leakage through pressurisation cap.			
16	SE	40403	4	DLW	Loco failed due to water leakage from water inlet tube.			
17	WC	70444	5	DLW	Pressure suddenly dropped.			
18	WC	16485	2	All	Centrifugal outlet pipe cracked.			
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total
11	2	3	0	1	0	0	1	18

Details of Causewise failure analysis of WS & PU account (with in 180 Days)								
(May 2017)								
S.No	Rly's	Loco No.	System	Acct.	Details			
1	CR	40447	2	DLW	Threads of ejector assly. worn out.			
2	ER	36169	C	JMP	Auxilliary Generator Armature shaft broken.			
3	ER	70642	5	DLW	B/S horn not working.			
4	ECOR	14921	6	KGP	Auxilliary generator armature winding short circuited & burnt.			
5	NR	11218	D	CB	Tacho Generator stator & armature joining plate cover bolt broken.			
6	NR	70639	1	DLW	Power assly. No. 2 blade rod broken.			
7	NR	17603	B	DLW	PRG-01 supply card defective.			
8	NR	17655	6	DLW	Compressor unloader piston valve K-ring damaged.			
9	NC	40380	1	DLW	Water leakage found from power assly. no. 11.			
10	NC	40406	5	DLW	Failure occurred due to air leakage from exhaust port angle cock.			
11	NE	70634	5	DLW	Penalty brake applied but brake not released.			
12	NE	14060	3	CB	HSD leakage from fuel header.			
13	NE	11253	3	CB	FP motor not working.			
14	NE	40427	A	DLW	ESD with low lube indication.			
15	NE	40430	1	DLW	AC element to ejector unit flexible pipe worked out.			
16	NW	70581	1	DLW	Cylinder no. 16 head cracked.			
17	NW	70581	1	DLW	Head of cyl. no. 2 & 10 cracked.			
18	NW	16798	1	DMW	E/R/S cam gear teeth broken.			
19	NW	70698	1	DLW	Gasket between water inlet housing of compressor & flange found damaged.			
20	SC	70596	4	DLW	Pressure cap found defective.			
21	SC	70621	4	DLW	Piston lifting hole area inside broken.			
22	SE	40403	1	DLW	Engine starting trouble for PRG-01 power supply unit.			
23	WC	14979	A	All	Lube oil subheader pipe crack.			
24	WC	14957	2	All	BKT no. 3 contactor burnt.			
25	WC	13520	A	All	Fuel oil cross over pipe crack.			
26	WC	14562	3	DLW	RTTM bower pulley broken.			
27	WC	18896	5	All	Axle box outer race found loose.			
28	WR	13456	7	GOC	OSTA not get properly set during POH.			
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total
17	1	3	0	1	1	1	4	28

Details of Causewise failure analysis of WS & PU account (with in180 Days)								
(Jun 2017)								
S.No	Rly's	Loco No.	System	Acct.	Details			
1	ER	70687	1	DLW	No. 9 power assly. damaged resulting in water leakage.			
2	ECOR	14933	1	KGP	Cylinder liner cracked.			
3	ECOR	70626	A	DLW	02 nos. of display units found defective.			
4	NC	40406	A	DLW	Loco not cranking.			
5	NC	11284	B	All	Dropping of GF.			
6	NF	16466	E	KGP	TM no. 6 black smoke, pinion broken & axle locked.			
7	NF	14842	1	DMW	L-2 pistoon centre stud broken.			
8	SC	70593	A	DLW	U-phase module in TCC no. 2 defective.			
9	SE	40404	D	DLW	Heavy spark & noise from Traction Alternator.			
10	SE	40402	M	DLW	Ground fault detected in DC link momentarily.			
11	SW	40451	1	DLW	Breakage of 6th location cylinder head valve.			
12	SW	40455	1	DLW	16th location piston disintegrated & liner bottom damaged.			
13	WC	14560	4	DMW	Water leakage from expansion tank.			
14	WR	16795	4	GOC	Heavy water leakage from L/S bubble collector.			
15	WR	13485	3	PR	L-8 injector nozzle found cracked.			
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total
8	2	0	1	1	0	2	1	15

Diesel loco failures on WS & PU account (within 180 days)
Apr-Jun'17 IInd Quarter

Source -PCDOs

Rly Wise

S.No.	Railway	DLW Failure	DMW Failure	Work Shop Failure							Total failures
				CB	PR	GOC	JMP	KGP	All	Total	
1	CR	1	0	0	0	0	0	0	0	0	1
2	ER	4	1	0	0	0	1	0	0	1	6
3	ECR	0	0	0	0	0	0	0	0	0	0
4	ECoR	1	0	0	0	0	0	2	0	2	3
5	NR	3	1	1	0	0	0	0	0	1	5
6	NCR	3	0	2	0	0	0	0	1	3	6
7	NER	4	0	3	0	0	0	0	0	3	7
8	NFR	0	1	0	0	0	0	1	0	1	2
9	NWR	4	1	0	0	0	0	0	0	0	5
10	SR	0	0	0	0	1	0	0	0	1	1
11	SCR	7	0	0	0	0	0	0	0	0	7
12	SER	5	0	0	0	0	0	0	0	0	5
13	SECR	0	0	0	0	0	0	0	0	0	0
14	SWR	2	0	0	0	0	0	0	0	0	2
15	WR	0	0	0	1	2	0	0	0	3	3
16	WCR	2	1	0	0	0	0	0	5	5	8
IR		36	5	6	1	3	1	3	6	20	61

Diesel loco failures on WS & PU account (within 180 days)

Apr-Jun'17 IInd Quarter

Source -PCDOs

System Wise

System	DLW Failure	DMW Failure	Work Shop Failure							Total failures
			CB	PR	GOC	JMP	KGP	All	Total	
Power pack & its	11	2	0	0	0	0	1	0	1	14
% of total failures	30.6	40.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	23.0
Lube oil system	1	0	0	0	1	0	0	2	3	4
% of total failures	2.8	0.0	0.0	0.0	33.3	0.0	0.0	0.0	15.0	6.6
Fuel oil system	1	1	2	1	0	0	0	1	4	6
% of total failures	2.8	20.0	33.3	0.0	0.0	0.0	0.0	0.0	20.0	9.8
Water cooling system	7	1	0	0	1	0	0	0	1	9
% of total failures	19.44	20	0	0.0	33.3	0	0	0	5.0	14.8
Air brake system	7	0	0	0	0	0	0	0	0	7
% of total failures	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
Under gears	0	0	0	0	1	0	0	0	1	1
% of total failures	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	5.0	1.6
Governor	0	0	0	0	0	0	0	0	0	0
% of total failures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electrcal controls	5	0	0	0	0	0	0	2	2	7
% of total failures	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	11.5
Contractors/Relays/ Switches/ CBS	1	0	2	0	0	0	0	1	3	4
% of total failures	2.8	0.0	33.3	0.0	0.0	0.0	0.0	0.0	15.0	6.6
Wiring/cables	0	0	0	0	0	0	0	0	0	0
% of total failures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Traction motors	0	0	1	0	0	0	1	0	2	2
% of total failures	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	10.0	3.3
Traction Generators	1	0	1	0	0	0	0	0	1	2
% of total failures	2.8	0.0	16.7	0.0	0.0	0.0	0.0	0.0	5.0	3.3
Aux. Mechanical	1	0	0	0	0	0	1	0	1	2
% of total failures	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.3
Aux. Electrical	0	0	0	0	0	1	0	0	1	1
% of total failures	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	5.0	1.6
Misc.	1	1	0	0	0	0	0	0	0	2
% of total failures	2.8	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
Total failures	36	5	6	1	3	1	3	6	20	61