

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

संख्या 2004/एम(एल)/466/3501

नई दिल्ली, दिनांक: 31.05.2018

महाप्रबन्धक,
डीजल रेल इंजन कारखाना,
वाराणसी।

मुख्य प्रशासनिक अधिकारी,
डीजल इंजन आधुनिकीकरण कारखाना,
पटियाला।

प्रधान 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.

जनवरी से मार्च 2018 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 इकाइयों/कार्यशालाओं से अनुरोध है कि वे सुधारात्मक कार्यवाही करें।


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

प्रतिलिपि: प्रधान 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, भुवनेश्वर।
पूर्वोत्तर रेलवे, गोरखपुर।
दक्षिण मध्य रेलवे, सिकन्दराबाद।
दक्षिण पश्चिम रेलवे, हुबली।
पश्चिम मध्य रेलवे, जबलपुर।

Diesel loco failures on WS & PU account (within 180 days)
Jan- Mar 18 1st 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	0	0	0	0	0	0	0	0	0	0
2	ER	0	1	0	0	0	3	0	0	3	4
3	ECR	2	0	0	0	0	0	0	0	0	2
4	ECoR	0	3	0	0	0	0	1	0	1	4
5	NR	1	1	0	0	0	0	0	0	0	2
6	NCR	0	0	1	1	0	0	0	0	2	2
7	NER	0	0	2	0	0	0	0	0	2	2
8	NFR	0	2	0	0	0	0	6	0	6	8
9	NWR	4	0	0	0	0	0	0	1	1	5
10	SR	1	0	0	0	0	0	0	0	0	1
11	SCR	0	0	0	0	1	0	0	0	1	1
12	SER	8	0	0	0	0	0	0	0	0	8
13	SECR	6	0	0	0	0	0	0	0	0	6
14	SWR	6	0	0	0	0	0	0	0	0	6
15	WR	2	0	0	0	1	0	0	0	1	3
16	WCR	3	0	0	0	0	0	0	1	1	4
IR		33	7	3	1	2	3	7	2	18	58

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

Jan- Mar 18 1st 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 components	7	0	0	0	0	0	0	0	0	7
% of total failures	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1
Lube oil system	2	1	0	0	0	1	2	0	3	6
% of total failures	6.1	14.3	0.0	0.0	0.0	0.0	0.0	0.0	16.7	10.3
Fuel oil system	1	0	0	0	0	0	1	0	1	2
% of total failures	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	3.4
Water cooling system	2	0	3	0	0	0	0	0	3	5
% of total failures	6.1	0	10.0	0	0	0	0	0	16.7	8.6
Air brake system	0	1	0	0	0	0	0	0	0	1
% of total failures	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Under gears	0	0	0	0	1	1	0	0	2	2
% of total failures	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	11.1	3.4
Governor	1	0	0	0	0	0	0	0	0	1
% of total failures	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Electrcal controls	11	0	0	0	0	0	1	0	1	12
% of total failures	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	20.7
Contractors/Relays/Switches/ CBS	2	0	0	0	0	0	2	0	2	4
% of total failures	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	6.9
Wiring/cables	0	0	0	1	0	0	0	0	1	1
% of total failures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	1.7
Traction motors	1	1	0	0	0	0	1	0	1	3
% of total failures	3.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.2
Traction Generators	2	0	0	0	0	1	0	0	1	3
% of total failures	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.2
Aux. Mechanical	1	1	0	0	0	0	0	0	0	2
% of total failures	3.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Aux. Electrical	2	2	0	0	1	0	0	1	2	6
% of total failures	6.1	28.6	0.0	0.0	50.0	0.0	0.0	0.0	11.1	10.3
Misc.	1	1	0	0	0	0	0	1	1	3
% of total failures	3.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.2
Total failures	33	7	3	1	2	3	7	2	18	58

Detail of Causewise failure analysis of WS & PU acct with in 180 Days

(January 2018)

S.No	Rly's	Loco No.	System	Acct.	Details				
1	ER	14909	2	DMW	Lube oil relief valve defective.				
2	ER	14132	7	JMP	Gear side roller bearing seized in wheel no. 4.				
3	EC	40456	2	DLW	L.O. filter tank gauge glass thrown out.				
4	ECOR	14536	5	DMW	ABD valve leakage.				
5	ECOR	14539	M	DMW	Auto flasher light glowing due to wrong BP setting.				
6	NC	11293	F	PR	Power diode rectifier assembly wire found cut.				
7	NC	18979	4	CB	Water leakage from Left side radiator.				
8	NF	13010	B	KGP	CK-1 plate broken and drop down.				
9	NF	14845	C	DMW	Lube oil throwing from crank case exhaustor motor.				
10	SR	40485	2	DLW	Tenth piston cooling tube assembly blocked.				
11	SC	18974	C	GOC	Tacho Generator rotating freely on shaft.				
12	SE	70746	E	DLW	Power ground during dynamic braking.				
13	SE	70746	1	DLW	No. 6 power assembly arm found defective.				
14	SE	70760	4	DLW	Water leakage from tell tale hole.				
15	SE	70748	1	DLW	Unusual sound from No. 3 power assembly.				
16	SW	40531	A	DLW	Fluttering of FCB-2B contactor feedback.				
17	SW	40535	A	DLW	Throttle not responded due to defective L-2 phase.				
18	SW	40531	A	DLW	Wrong wiring connection in Master control switch.				
19	WR	16815	7	GOC	Knuckle thrower stuck at Long hood side.				
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total	
9	4	1	1	2	1	1	0	19	

Details of Causewise failure analysis of WS & PU account (with in 180 Days)								
(February 2018)								
S.No	Rly's	Loco No.	System	Acct.	Details			
1	ER	18882	2	JMP	Lube oil pump housing broken.			
2	EC	70765	C	DLW	Auto shut down & starting trouble.			
3	ECOR	13569	B	KGP	P1 & P2 Power toggle switch defective.			
4	NR	14825	6	DMW	TSC rotor stud broken from root.			
5	NF	16640	A	KGP	PRPM not responding due to loose nut.			
6	NF	16519	2	KGP	Radiator core to lube oil cooler dressor clamp broken.			
7	NF	14856	C	DMW	Dynamic brake poor performance.			
8	NW	70769	B	DLW	TM no. 2 speed sensor defective.			
9	NW	70781	A	DLW	AO-1 card of SIBAS clip station defective.			
10	NW	70779	1	DLW	Cylinder no. 8 MUI Injector seized.			
11	NW	16385	C	All	Rectifier fuse blown out.			
12	SE	70743	D	DLW	Flash over TA slip ring.			
13	SECR	70734	M	DLW	Cab 1 horn magnet valve malfunctioning due to ingress of dust.			
14	WC	70718	A	DLW	Governor harness burnt causing ESD.			
15	WR	40549	C	DLW	Battery charging assembly broken.			
16	WR	40483	A	DLW	Bus bar gets cracked causing circuit open.			
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total
9	2	0	0	0	1	3	1	16

Details of Causewise failure analysis of WS & PU account (with in180 Days)								
(March 2018)								
S.No	Rly's	Loco No.	System	Acct.	Details			
1	ER	16265	D	JMP	Stator winding of TA burnt.			
2	ECOR	14618	E	DMW	No. 2 TM Armature burnt.			
3	NR	70785	6	DLW	Abnormal sound from engine.			
4	NER	14106	4	CB	Radiator fan blade broken.			
5	NER	14116	4	CB	Water leakage from radiator tubes.			
6	NF	13010	E	KGP	Smoke from TM no. 5 & wheel.			
7	NF	16488	3	KGP	L-3 cylinder HP tube burst.			
8	NF	11483	2	KGP	Lube oil leakage from flexible pipe joint.			
9	NW	70781	1	DLW	Power assembly no. 8 seized & piston bore broken.			
10	SE	70758	A	DLW	EPD LWS trip & loco got shutdown.			
11	SE	70747	A	DLW	ESD with PCS open & battery discharged.			
12	SE	70750	A	DLW	Starting trouble due to ECC-1 analogue card defective.			
13	SECR	70734	B	DLW	TA L/S rectifier bank diode fuse.			
14	SECR	70796	A	DLW	D1 analogue output card defective.			
15	SECR	70777	D	DLW	TA field winding IR=0.			
16	SECR	70794	8	DLW	WW Governor A solenoid not working.			
17	SECR	70798	1	DLW	ESD with crankcase tripped.			
18	SW	40517	3	DLW	OSTA tripped & ESD.			
19	SW	40530	A	DLW	HP reduction.			
20	SW	40523	4	DLW	Water leakage from R/S radiator.			
21	WC	40533	1	DLW	Power assembly no. 6 piston broken.			
22	WC	40538	1	DLW	Air box cover O-Ring broken.			
23	WC	13033	M	All	PCS-2 pressure switch connection loose.			
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total
15	1	2	0	0	1	3	1	23