



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

संख्या 2004/एम(एल)/466/3501

नई दिल्ली, दिनांक: 27.02.2017

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.

अक्टूबर से दिसम्बर 2016 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।

(आलोक कुमार मिश्रा)
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, भुवनेश्वर।
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 (Oct 2016)									
S.No	Rly's	Loco No.	System	Acct.	Details				
1	CR	40361	A	DLW	Flashing in Breaker chopper assembly.				
2	CR	40361	5	DLW	Heavy air pressure leakage in FP angle cock.				
3	CR	40346	8	DLW	WW Governor 'B' solenoid resistance vave dropped.				
4	ER	16163	1	JMP	No. 9 main bearing, thrust collar damaged.				
5	EC	40356	5	DLW	BP Pressure not built up.				
6	EC	40358	4	DLW	Internal water leakage.				
7	EC	70534	4	DLW	Water leakage from cyl. liner power assly. No. 11.				
8	NR	14849	2	CB	Lube oil cooler victolic coupling joint leakage.				
9	NR	13348	4	CB	After cooler tube burst.				
10	NR	14826	4	DMW	Water pressurised cap loosened.				
11	NR	14848	B	DMW	CCM circuit breaker defective.				
12	NR	40304	7	DLW	H type coupling defective.				
13	NE	70547	5	DLW	Horn magnet valve stuck up.				
14	NF	16547	3	KGP	FP zero due to defective booster pump.				
15	NW	16789	3	DMW	Fuel regulating valve to FP gauge copper pipe broken.				
16	SC	18915	1	GOC	Flexible coupling back plate dropped.				
17	SE	13421	1	KGP	1R piston & steel cap jointing bolt broken.				
18	WC	16526	F	All	Load meter zero.				
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total	
8	3	2	0	1	1	2	1	18	

Details of Causewise failure analysis of WS & PU account (with in 180 Days)								
(Nov 2016)								
S.No	Rly's	Loco No.	System	Acct.	Details			
1	CR	14647	2	DMW	Seat bush of Relief valve uncoupled.			
2	CR	70588	B	DLW	REMG-1 Resistor in generator field decay ckt. found burnt.			
3	CR	40346	1	DLW	Water leakage from GE make power assly. no. 8.			
4	EC	40356	C	DLW	WW Governor solenoid short circuited.			
5	EC	13083	M	CB	Computer off & power shut down.			
6	ECOR	14920	3	KGP	7L FIP base bolt broken.			
7	ECOR	70515	A	DLW	BRK-2 diode of contactor coil burnt.			
8	ECOR	70566	F	DLW	Wire no. B-13 S5 from coupler open.			
9	ECOR	70513	1	DLW	Air exhausting through 20 CP valve.			
10	NR	14015	B	DMW	AGFI sensor connection terminal wire burnt.			
11	NE	70547	4	DLW	No. 13 water inlet/tube found crack.			
12	NE	70571	5	DLW	Air leakage from C2N feed valve of system.			
13	NE	70571	5	DLW	BP CP valve was found defective.			
14	NW	70582	B	DLW	BV solenoid defective.			
15	NW	70582	1	DLW	Power assly. of no. 14 seized.			
16	NW	40342	7	DLW	Bogie no. 1 secondary yaw damper pin broken.			
17	SC	18895	3	GOC	FPM defective.			
18	SC	13466	A	GOC	Smoke & flames dynamic grid not recognised.			
19	SC	14892	E	GOC	Axle locked.			
20	SC	70590	1	DLW	No. 2 piston disintegrated.			
21	SE	13421	1	KGP	1L cylinder liner collar broken.			
22	SE	40348	D	DLW	Alternator field winding burnt.			
23	WR	40333	5	DLW	NRV & air dryers found defective.			
24	WC	16352	5	All	R/C/S COC defective.			
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total
15	2	1	0	3	0	2	1	24

Details of Causewise failure analysis of WS & PU account (with in180 Days)								
(Dec 2016)								
S.No	Rly's	Loco No.	System	Acct.	Details			
1	CR	40347	3	DLW	No. 16 MUI jammed.			
2	CR	70587	6	DLW	Heavy exhaust gas leaking from TSC gas inlet casing.			
3	ER	13471	1	JMP	1R crank case broken in pieces.			
4	ER	14705	2	DMW	Lube oil relief valve cup disc thread found damaged.			
5	ER	40390	1	DLW	Water leakage from Power assembly no. 11 & 16.			
6	EC	70534	C	DLW	Load meter not responding PCS open.			
7	EC	13502	C	JMP	Ground relay operation.			
8	EC	40358	C	DLW	Plunger thrown of VVV Governor.			
9	ECOR	70566	2	DLW	Piston no. 12 seized & piston skirt broken.			
10	NR	18666	2	CB	LO leakage from left side header.			
11	NR	70486	5	DLW	BP pressure zero.			
12	NE	70533	5	DLW	No feedback of MR2 by CCB system.			
13	NW	70589	1	DLW	MUI no. 13 found seized.			
14	NW	16789	4	DMW	Gear side bearing of water pump damaged.			
15	NW	40342	3	DLW	Fuel header cracked near power assembly no. 5 & 13.			
16	NW	40363	7	DLW	Chassis side damper pin broken.			
17	SR	16853	2	DMW	ESD due to low lube oil pressure.			
18	SC	18889	E	GOC	Wheel no. 2 axle locked.			
19	SC	14898	A	GOC	R-phase negative side D-21, D22 diodes burnt.			
20	SC	13467	A	GOC	Sparkes & smoke from dynamic braking grids on 3rd notch.			
21	SC	40327	D	DLW	Load meter not responding.			
22	SC	70544	1	DLW	No 9 power assembly liner broken.			
23	SECR	36027	6	GOC	RTTM Blower shaft broken.			
24	SW	16294	1	GOC	Exhaust manifold burst at no. 7 causing loco failure.			
25	WR	18380	4	GOC	Water pump gear 11 teeth found broken.			
DLW	DMW	CB	PR	GOC	JMP	KGP	All	Total
13	3	1	0	6	2	0	0	25

Diesel loco failures on WS & PU account (within 180 days)
Oct-Dec '16 IVth 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	7	1	0	0	0	0	0	0	0	8
2	ER	1	1	0	0	0	2	0	0	2	4
3	ECR	6	0	1	0	0	1	0	0	2	8
4	ECoR	4	0	0	0	0	0	1	0	1	5
5	NR	2	3	3	0	0	0	0	0	3	8
6	NCR	0	0	0	0	0	0	0	0	0	0
7	NER	5	0	0	0	0	0	0	0	0	5
8	NFR	0	0	0	0	0	0	1	0	1	1
9	NWR	6	2	0	0	0	0	0	0	0	8
10	SR	0	1	0	0	0	0	0	0	0	1
11	SCR	3	0	0	0	7	0	0	0	7	10
12	SER	1	0	0	0	0	0	2	0	2	3
13	SECR	0	0	0	0	1	0	0	0	1	1
14	SWR	0	0	0	0	1	0	0	0	1	1
15	WR	1	0	0	0	1	0	0	0	1	2
16	WCR	0	0	0	0	0	0	0	2	2	2
IR		36	8	4	0	10	3	4	2	23	67

Diesel loco failures on WS & PU account (within 180 days)
Oct-Dec '16 IVth Quarter
System Wise

Source -PCDOs

System	DLW Failure	DMW Failure	Work Shop Failure							Total failures
			CB	PR	GOC	JMP	KGP	All	Total	
Power pack & its	7	0	0	0	2	2	2	0	6	13
% of total failures	19.4	0.0	0.0	0.0	20.0	66.7	50.0	0.0	26.1	19.4
Lube oil system	1	3	2	0	0	0	0	0	2	6
% of total failures	2.8	37.5	50.0	0.0	0.0	0.0	0.0	0.0	8.7	9.0
Fuel oil system	2	1	0	0	1	0	2	0	3	6
% of total failures	5.6	12.5	0.0	0.0	10.0	0.0	0.0	0.0	13.0	9.0
Water cooling system	3	2	1	0	1	0	0	0	2	7
% of total failures	8.333	25	25	0.0	10	0	0	0	8.7	10.4
Air brake system	8	0	0	0	0	0	0	1	1	9
% of total failures	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	13.4
Under gears	3	0	0	0	0	0	0	0	0	3
% of total failures	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
Governor	1	0	0	0.0	0	0	0	0	0	1
% of total failures	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Electrcal controls	2	0	0	0	3	0	0	0	3	5
% of total failures	5.6	0.0	0.0	0.0	30.0	0.0	0.0	0.0	13.0	7.5
Contractors/Relays/ Switches/ CBS	2	2	0	0	0	0	0	0	0	4
% of total failures	5.6	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Wiring/cables	1	0	0	0	0	0	0	1	1	2
% of total failures	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	3.0
Traction motors	0	0	0	0	2	0	0	0	2	2
% of total failures	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	8.7	3.0
Traction Generators	2	0	0	0	0	0	0	0	0	2
% of total failures	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Aux. Mechanical	1	0	0	0	1	0	0	0	1	2
% of total failures	2.8	0.0	0.0	0.0	10.0	0.0	0.0	0.0	4.3	3.0
Aux. Electrical	3	0	0	0	0	1	0	0	1	4
% of total failures	8.3	0.0	0.0	0.0	0.0	33.3	0.0	0.0	4.3	6.0
Misc.	0	0	1	0	0	0	0	0	1	1
% of total failures	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	4.3	1.5
Total failures	36	8	4	0	10	3	4	2	23	67