

भारत सरकार
रेल मंत्रालय
(रेलवे बोर्ड)

संख्या 2004/एम(एल)/466/3501

नई दिल्ली, दिनांक:28.11.2014

महाप्रबन्धक,
डीजल रेल इंजन कारखाना,
वाराणसी।

मुख्य प्रशासनिक अधिकारी,
डीजल इंजन आधुनिकीकरण कारखाना,
पटयाला।

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.

जुलाई से सितम्बर 2014 की तिमाही के दौरान आवधिक ओवरहॉलिंग में पुनःनिर्मित/नवनिर्मित डीजल इंजनों की विश्वसनियता रिपोर्ट पूर्णतः विवरण के साथ संलग्न (अनुलग्नक-1) 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।



(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।

Diesel loco failures on WS & PU account (within 180 days)
July-Sept '14 Illrd 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	2	0	0	0	0	0	0	0	0	2
2	ER	3	6	0	0	0	6	0	0	6	15
3	ECR	3	4	0	2	0	5	0	0	7	14
4	ECoR	0	1	0	0	0	0	8	0	8	9
5	NR	1	1	7	0	0	0	0	0	7	9
6	NCR	0	0	5	0	0	0	0	0	5	5
7	NER	2	1	0	0	0	0	0	1	1	4
8	NFR	0	4	0	0	0	0	3	0	3	7
9	NWR	4	3	0	0	0	0	0	1	1	8
10	SR	1	1	0	0	1	0	1	0	2	4
11	SCR	4	0	0	0	6	0	0	0	6	10
12	SER	0	1	0	0	1	0	0	0	1	2
13	SECR	0	0	0	0	0	0	1	0	1	1
14	SWR	0	0	0	0	1	0	0	0	1	1
15	WR	0	0	0	2	0	0	0	0	2	2
16	WCR	2	6	0	8	0	0	0	4	12	20
IR		22	28	12	12	9	11	13	6	63	113

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

July-Sept'14 Illrd Quarter

Source -PCDOs

System Wise

System	DLW Failur	DMW Faillure	Work Shop Failure							Total failures
			CB	PR	GOC	JMP	KGP	All	Total	
Power pack & its	2	10	0	2	4	1	3	2	12	24
% of total failures	9.1	35.7	0.0	16.7	44.4	9.1	23.1	33.3	19.0	21.2
Lube oil system	0	3	1	1	0	0	1	0	3	6
% of total failures	0.0	10.7	8.3	8.3	0.0	0.0	0.0	0.0	4.8	5.3
Fuel oil system	2	2	1	3	1	0	1	0	6	10
% of total failures	9.1	7.1	8.3	25.0	11.1	0.0	0.0	0.0	9.5	8.8
Water cooling system	2	2	2	0	0	2	1	1	6	10
% of total failures	9.1	7.1	16.7	0.0	0.0	18.2	0.0	0.0	9.5	8.8
Air brake system	3	4	2	2	1	1	0	0	6	13
% of total failures	13.6	14.3	16.7	16.7	11.1	9.1	0.0	0.0	9.5	11.5
Under gears	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
Governor	0	0	0	0	0	0	0	1	1	1
% of total failures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	1.6	0.9
Electrcal controls	4	0	2	0	0	0	1	1	4	8
% of total failures	18.2	0.0	16.7	0.0	0.0	0.0	0.0	0.0	6.3	7.1
Contractors/Relays/ Switches/ CBS	1	1	0	2	0	1	0	0	3	5
% of total failures	4.5	3.6	0.0	16.7	0.0	9.1	0.0	0.0	4.8	4.4
Wiring/cables	3	0	1	0	0	0	0	0	1	4
% of total failures	13.6	0.0	8.3	0.0	0.0	0.0	0.0	0.0	1.6	3.5
Traction motors	0	0	2	0	1	1	0	1	5	5
% of total failures	0.0	0.0	16.7	0.0	11.1	9.1	0.0	0.0	7.9	4.4
Traction Generators	1	0	0	0	1	0	0	0	1	2
% of total failures	4.5	0.0	0.0	0.0	11.1	0.0	0.0	0.0	1.6	1.8
Aux. Mechanical	1	5	1	0	0	3	2	0	6	12
% of total failures	4.5	17.9	8.3	0.0	0.0	27.3	0.0	0.0	9.5	10.6
Aux. Electrical	1	0	0	1	1	0	4	0	6	7
% of total failures	4.5	0.0	0.0	8.3	11.1	0.0	0.0	0.0	9.5	6.2
Misc.	2	1	0	1	0	2	0	0	3	6
% of total failures	9.1	3.6	0.0	8.3	0.0	18.2	0.0	0.0	4.8	5.3
Total failures	22	28	12	12	9	11	13	6	63	113

Detail of Causewise failure analysis of WS & PU acct with in 180 Days								
(July 2014)								
S.No	Rly's	Loco No.	System	Account	Details			
1	CR	12882	3	DLW	Power Assly. No. 6 fuel pipe found cracked.			
2	ER	11205	E	JMP	TM 1 taking high current and power grounded			
3	ER	11498	1	DMW	Exh. Manifold 7 cracked.			
4	ER	11499	6	DMW	Exh. Manifold 7 cracked.			
5	ER	12932	6	DLW	No hauling power at 6th notch.			
6	ER	16570	2	DMW	Sand hole at LOP pump body.			
7	EC	11495	6	DMW	Pinion end bearing seized.			
8	EC	11489	3	PR	Heavy leakage of fuel pipe.			
9	EC	11496	5	PR	HP air discharge pipe leakage.			
10	EC	14160	6	JMP	wheel slip on every notch.			
11	EC	11509	M	DMW	Load meter zero.			
12	EC	12943	F	DLW	ECC wiring burnt.			
13	EC	18956	M	JMP	F/Truck frame cracked.			
14	EC	18959	M	JMP	R/Truck frmae cracked.			
15	ECOR	14044	A	KGP	ECC changed due to IR.			
16	ECOR	13264	C	KGP	LWS Sensor defective.			
17	ECOR	14672	6	KGP	5L cyl. Head stud broken.			
18	ECOR	13247	C	KGP	Ex. Gen. bearing damaged.			
19	NR	13344	E	CB	TM 5 speed sensor loosened.			
20	NR	11172	E	CB	TM 2 interpolew IR=0			
21	NR	11154	6	CB	Fuel pump motor coupling broken			
22	NR	16844	5	DMW	S/H side horn diaphgarm bursted.			
23	NR	70009	C	DLW	5 diodes of Rectifier shorted.			
24	NC	18717	3	CB	R6 FIP rack not responding.			
25	NC	18717	4	CB	water leakage near water cooler.			
26	NE	40170	1	DLW	Piston no. 5 seizure.			
27	NF	18694	4	KGP	Water pump def.			
28	NF	16765	1	DMW	R7 cylinder liner damaged.			
29	NW	16155	8	All	MCBG Gov. def.			
30	NW	16768	1	DMW	Engine block damaged.			
31	SC	14038	1	GOC	L6 cyl. Head and piston head damaged.			
32	SC	14031	5	GOC	S/H side agsket and air leakage.			
33	SC	12984	5	DLW	HP inlet valve bolts failed.			
34	SC	70012	M	DLW	DC link voltage not build more than 550 Volts.			
35	SC	12999	M	DLW	DC link voltage not build more than 550 Volts.			
36	SC	14633	1	GOC	OSTA def.			
37	SC	11115	D	GOC	TA mounted rectifier shorted.			
38	SC	13245	1	GOC	Turbo oil bearing failure.			
39	WC	13329	C	PR	OSTA tripping and FOP zero.			
40	WC	16741	5	DMW	BP pressure dropped causing loco failure.			
DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
8	9	4	5	3	5	5	1	40

**Details of Causewise failure analysis of WS & PU account (with in 180 Days)
(August 2014)**

S.No	Rly's	Loco No.	System	Account	Details
1	CR	40165	A	DLW	TCC1 blower failed.
2	ER	11247	5	JMP	Discharge valve of LP comp. head broken.
3	ER	11499	5	DMW	Air leakage from compressor AC outlet pipe.
4	ER	11498	1	DMW	Exh. Manifold 7 cracked.
5	ER	11498	1	DMW	4L piston disintegrated.
6	ER	16331	6	JMP	U/S from RTTM blower bearing.
7	ER	16337	4	JMP	Water exp. Tank tap plate weldng broken.
8	ER	12972	F	DLW	Wire no. J2 terminal broken.
9	EC	11506	4	DMW	Internal leakage of water.
10	ECOR	16242	C	KGP	L/H flasher light control unit changed.
11	ECOR	13246	1	KGP	TSC changed due to 1 L IV damaged.
12	ECOR	14090	3	KGP	7L FIP support changed.
13	NR	14157	5	CB	A9 valve diaphragm busted.
14	NR	14157	4	CB	Radiator tube punctured.
15	NR	18950	2	CB	LO pipe housing damaged.
16	NR	11172	F	CB	T01 wiring of water level indicator seperated.
17	NC	16212	A	CB	Im proper postioning of selector handle.
18	NC	16096	5	CB	R/Sstand valve diaphragm burst.
19	NC	16212	A	CB	MCBG control unit power card def.
20	NE	40169	3	DLW	LWS indication due to less water.
21	NF	16765	6	DMW	L5 fuel cam lobe worn out.
22	NF	16845	6	DMW	L2 & L5 FIP stiffer support screw broken.
23	NW	12950	A	DLW	Tractive effort not buildind upto 4th notch.
24	NW	16787	B	DMW	Throttle not responding.
25	NW	12955	5	DLW	MR Pressure not maintained.
26	NW	16434	E	All	TM no. 1 isolated due to GR trouble.
27	NW	40184	A	DLW	GRAV Assly. Def.
28	NW	40084	D	DLW	ETP sensor malfunctioning.
29	SR	40180	4	DLW	Solenoid B & D Gov. short circuited.
30	SR	15535	3	GOC	Breakage Copper pipe line from pri. Filter.
31	SC	11114	E	GOC	TM 1 Bearing seized.
32	SC	12999	F	DLW	TM 6 def.
33	SW	14082	C	GOC	Excitor Gen. gear teeth broken.
34	WC	11192	B	PR	Contactora burnt.
35	WC	14114	1	PR	R2 liner broken from collar.
36	WC	16741	5	DMW	BP pressure dropping.
37	WC	12979	1	DLW	Loco failed due to water leakage and PP assly.
38	WC	12964	A	DLW	Load meter zero.
39	WC	14899	1	All	U/S from L3 cyl. Head.
40	WC	14733	1	PR	U/S sound from Engine room.
41	WC	13327	2	PR	ESD trouble on 8th notch.
42	WC	18930	3	PR	Loco failed due to FOP Trouble.
43	WC	16741	2	DMW	All lube oil drained out.
44	WC	16741	4	DMW	Heavy water leakage.

DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
11	10	3	7	5	3	3	2	44

Details of Causewise failure analysis of WS & PU account (with in180 Days)					
(Sept 2014)					
S.No	Rly's	Loco No.	System	Account	Details
1	ER	16331	1	JMP	8L Exh. Vave dropped and C. Head damage
2	ER	18874	6	JMP	No. 3 Exh. Manifold arm broken.
3	ER	12929	5	DLW	CCB card defective.
4	EC	70028	B	DLW	ECC capacitor burnt.
5	EC	12962	4	DLW	Water leakage in crank case of compressor.
6	EC	11491	1	DMW	1R connecting piston and cyl. Liner damaged.
7	EC	13235	4	JMP	LWS sensor gasket burst.
8	EC	18639	B	JMP	MB 1 & MB2 and both side load meter burnt.
9	ECOR	13286	C	KGP	Dy. Grid changed due to melted.
10	ECOR	14044	3	DMW	1 L & 3L FIP support changed.
11	NE	16690	1	DMW	2R liner & piston broken.
12	NF	18662	2	KGP	Lube throw from chimney due to high TRD.
13	NF	16167	6	KGP	A/S from main bearing.
14	NF	14503	6	DMW	Split gear teeth broken.
15	NW	16793	1	DMW	Piston, liner and bush seized.
16	SR	11518	2	DMW	Lube oil leakage from system.
17	SR	11222	1	KGP	Connecting rod small end bush def.
18	SE	16144	1	GOC	U/S from engine block.
19	SE	16747	1	DMW	Water thrown from 2L Cyl. Head defrost plug.
20	SECR	16008	1	KGP	6L piston seized.
21	WC	16213	A	All	ESS gap broken.
22	WC	11198	1	All	R2 liner sleeve damaged.
23	WC	14899	4	All	Water leakage from R/S radiator core.
24	WC	16741	3	DMW	FOP zero.
25	WC	14793	B	PR	Load meter zero.
26	WC	13327	M	PR	Load meter not responding.
27	WC	16741	1	DMW	U/S from engine block.
28	WR	11492	3	PR	Lube oil leakage from compressor room.
29	WR	13226	5	PR	MR 2 pipe broken.

DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
3	9	4	0	4	5	1	3	29