

भारत सरकार
रेल मंत्रालय
(रेलवे बोर्ड)

संख्या 2004/एम(एल)/466/3501

नई दिल्ली, दिनांक: 19.09.2014

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।

अप्रैल से जून 2014 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।

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

Apr-Jun'14 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	2	0	0	0	0	0	0	0	0	2
2	ER	2	3	0	0	0	3	0	0	3	8
3	ECR	3	0	0	7	0	1	0	0	8	11
4	ECoR	0	0	0	0	0	0	11	0	11	11
5	NR	5	3	9	0	0	0	0	0	9	17
6	NCR	1	0	11	0	0	0	0	0	11	12
7	NER	1	0	0	0	0	0	0	0	0	1
8	NFR	1	3	0	0	0	0	2	0	2	6
9	NWR	0	3	0	0	0	0	0	5	5	8
10	SR	1	2	0	0	4	0	0	0	4	7
11	SCR	2	0	0	0	1	0	0	0	1	3
12	SER	3	1	0	0	0	0	1	0	1	5
13	SECR	1	4	0	0	0	0	1	0	1	6
14	SWR	0	0	0	0	3	0	0	0	3	3
15	WR	5	2	0	1	0	0	0	3	4	11
16	WCR	6	6	0	6	2	0	0	2	10	22
IR		33	27	20	14	10	4	15	10	73	133

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

Apr-Jun'14 IInd 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	3	7	1	4	1	0	4	0	10	20
% of total failures	9.1	25.9	5.0	28.6	10.0	0.0	26.7	0.0	13.7	15.0
Lube oil system	0	3	2	2	0	1	0	0	5	8
% of total failures	0.0	11.1	10.0	14.3	0.0	25.0	0.0	0.0	6.8	6.0
Fuel oil system	2	2	1	3	2	0	3	2	11	15
% of total failures	6.1	7.4	5.0	21.4	20.0	0.0	0.0	0.0	15.1	11.3
Water cooling system	3	0	0	1	2	0	1	2	6	9
% of total failures	9.1	0.0	0.0	7.1	20.0	0.0	0.0	0.0	8.2	6.8
Air brake system	0	3	2	2	0	0	0	0	4	7
% of total failures	0.0	11.1	10.0	14.3	0.0	0.0	0.0	0.0	5.5	5.3
Under gears	0	1	0	1	1	0	0	0	2	3
% of total failures	0.0	3.7	0.0	7.1	10.0	0.0	0.0	0.0	2.7	2.3
Governor	0	0	1	0	1	0	1	0	3	3
% of total failures	0.0	0.0	5.0	0.0	10.0	0.0	6.7	0.0	4.1	2.3
Electrcal controls	6	0	0	1	1	1	1	0	4	10
% of total failures	18.2	0.0	0.0	7.1	10.0	25.0	0.0	0.0	5.5	7.5
Contractors/Relays/Switches/ CBS	1	1	4	0	1	0	3	0	8	10
% of total failures	3.0	3.7	20.0	0.0	10.0	0.0	0.0	0.0	11.0	7.5
Wiring/cables	3	3	2	0	0	0	0	1	3	9
% of total failures	9.1	11.1	10.0	0.0	0.0	0.0	0.0	0.0	4.1	6.8
Traction motors	3	0	1	0	0	0	0	0	1	4
% of total failures	9.1	0.0	5.0	0.0	0.0	0.0	0.0	0.0	1.4	3.0
Traction Generators	1	2	0	0	0	0	0	1	1	4
% of total failures	3.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.0
Aux. Mechanical	4	0	1	0	0	1	0	0	2	6
% of total failures	12.1	0.0	5.0	0.0	0.0	25.0	0.0	0.0	2.7	4.5
Aux. Electrical	2	1	2	0	1	1	2	1	7	10
% of total failures	6.1	3.7	10.0	0.0	10.0	25.0	0.0	0.0	9.6	7.5
Misc.	5	4	3	0	0	0	0	3	6	15
% of total failures	15.2	14.8	15.0	0.0	0.0	0.0	0.0	0.0	8.2	11.3
Total failures	33	27	20	14	10	4	15	10	73	133

**Detail of Causewise failure analysis of WS & PU acct with in 180 Days
(APRIL 2014)**

S.No	Rly's	Loco No.	System	Account	Details			
1	ER	11246	C	JMP	AC Fuel Motor failed.			
2	EC	11487	7	PR	Clevis base broken.			
3	EC	11488	1	PR	Inlet valve broken above disc.			
4	EC	11491	5	PR	Heavy air leakage from BP angle cock.			
5	EC	11491	3	PR	Suction line coup. pipe broken near Pri. filter.			
6	ECOR	13247	1	KGP	Cylinder top liner collar & head face broken.			
7	ECOR	13241	A	KGP	L/H master controller charged.			
8	ECOR	13227	1	KGP	FIP support changed due to cross head broken.			
9	NR	14745	C	CB	AG lead short circuited.			
10	NR	14712	2	CB	LO inlet flexible pipe burst.			
11	NR	18986	3	CB	L3 FIP barrel burst.			
12	NR	40081	A	DLW	Engine temperature sensor def.			
13	NC	14152	1	LKO	U/S from L8 camshaft.			
14	NC	16082	6	LKO	U/S from RTTM blower bearing broken.			
15	NC	13295	C	LKO	Exi. Gen. holder insulator broken.			
16	NF	17962	B	KGP	ECC terminal broken.			
17	NF	11483	3	DLW	Right side fule cross over pipe nipple broken.			
18	NW	18708	4	All	water leakage from float valve joint.			
19	NW	16787	1	DMW	EMF pipe of R/S cyl. No.8 craked.			
20	NW	16321	F	All	61K wire found burnt.			
21	NW	16155	3	All	fuel rack cross over mechanism worked out.			
22	SR	16536	3	DMW	FOP drop due to reg. valve stuck up.			
23	SR	14081	3	GOC	Breakage of fuel jumper at T portion.			
24	SR	15532	B	GOC	Def. cable of water temp. sensor.			
25	SE	13208	3	KGP	heavy fuel oil from FO reg. valve.			
26	SECR	12356	1	DLW	power assly. Liners found cracked.			
27	SECR	13218	3	KGP	FO leakage near reg. pipe.			
28	SECR	16685	3	DMW	7R FIP stud broken.			
29	SW	13118	1	GOC	FIP bolts worked out.			
30	WR	14070	C	All	FP motor not working due to defective inv.			
31	WR	12910	A	DLW	A17 crow bar faulty.			
32	WR	11500	D	DLW	TG nylon gear teeth broken.			
33	WC	12948	M	DLW	ESD trouble.			
34	WC	16755	1	DMW	U/S from engine block.			
35	WC	16736	D	DMW	TA starter coil burst.			
36	WC	12964	M	DLW	reversor level locking jam.			
37	WC	16774	D	DMW	Power ground from main generator.			
38	WC	13153	1	PR	U/S sound from R7 cyl. Head.			
39	WC	16736	F	DMW	MB2 tripped and stuck up.			
40	WC	12978	A	DLW	PCS def.			
DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
8	7	1	6	5	6	3	4	40

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

S.No	Rly's	Loco No.	System	Account	Details
1	CR	40156	1	DLW	Power assly. No. 6 exh. Valve stem broken.
2	ER	11246	A	JMP	AC fuel pump motor failed due to PCB card def.
3	ER	11499	2	DMW	LO leakage from 9 nozzles.
4	ER	11205	2	JMP	4R nozzle sleeve crack.
5	ER	16618	F	DMW	loco fire from TM5 due to loose crimping.
6	ER	12901	3	DLW	FO leakage from 5 nos. FO jumper pipe.
7	ER	12935	F	DLW	Starting res. 1 of ECC II Burnt.
8	ER	16324	1	DMW	Eng. Block crack near no. 7 Main Bearing.
9	EC	11487	1	PR	L/S cyl. No. 2 Adjust pipe broken.
10	EC	11506	4	PR	Heavy water leakage near After cooler.
11	EC	11489	3	PR	F/O leakage from cyl. No. 5.
12	ECOR	13252	C	KGP	AG changed due to Gear oil leaking.
13	ECOR	13246	8	KGP	MCBG actuator unit motor.
14	ECOR	13242	C	KGP	Exc. Gen. changed due to low insulation.
15	ECOR	13247	1	KGP	TSC changed due to impeller side oil seal leak.
16	NR	40081	C	DLW	AG Excitor rotor field winding burnt.
17	NR	16642	M	DMW	ECC foundation bolt broken.
18	NR	18991	M	CB	FTTM locking bolts broken.
19	NR	11154	F	CB	GA 1 lead insulation damaged.
20	NR	14745	E	CB	TM3 flashed.
21	NC	13295	B	LKO	PDR +ve side bolt sleeve punctured.
22	NC	14152	M	LKO	Batteyr no. 8 container broken.
23	NC	14152	5	LKO	Air leakage thro' compressor A/Cooler.
24	NC	14163	F	LKO	Wire no. 13 grounded at grounded in WW Gov.
25	NC	11292	2	LKO	LO Pump less oil pressure.
26	NE	40170	6	DLW	Heavy air leakage from comp. room.
27	NF	11473	7	DMW	Stiffness of side buffer and restricted side buffer.
28	NF	11502	1	DMW	Piston steel CAP portion broken
29	NW	16787	5	DMW	L/H/S horn defective
30	SR	12993	A	DLW	PSM 305 module not generating output
31	SR	13330	8	GOC	MCBG actuator unit not functioning
32	SC	12917	4	DLW	water leakage from R/S Radiator core
33	SC	12968	4	DLW	water leakage from R/S Radiator core
34	SE	12954	M	DLW	ESD with WW governor LOPS dropped
35	SECR	16685	M	DMW	Fuel tank cracked
36	SW	14796	A	GOC	Electrical control system malfunctioning
37	WR	18570	M	All	Cell No. 4 of battery No 1 dry
38	WR	12910	A	DLW	Crow bar module of TCC -I defective
39	WR	12909	E	DLW	TM No 2 pinion broken
40	WR	12908	1	DLW	Seizure of piston carrier assly
41	WR	14161	2	PR	LO leakage from LO Regulating valve
42	WR	11500	5	DMW	Air pipe nipple thread defective
43	WC	12964	B	DLW	ESD due to fuel pump relay coil burnt
44	WC	14733	1	PR	LO mix in water
45	WC	14793	3	PR	Fuel oil leakage from R 6 Cyl head
46	WC	13318	4	All	Water leakage from water pump
47	WC	18964	5	PR	MU 2B valve defective

DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
13	9	2	8	7	4	2	2	47

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

S.No	Rly's	Loco No.	System	Account	Details
1	CR	40165	4	DLW	R/S radiator 3" pipe modified
2	EC	14160	6	JMP	Exp oil throws out from breather valve
3	EC	12943	F	DLW	ECC 2 terminal 62A burnt
4	EC	12986	E	DLW	TM no 4 defective
5	EC	12897	C	DLW	Dust bin blower motor def.
6	ECOR	13264	3	KGP	8R FIP changed due to rack jam
7	ECOR	14672	4	KGP	blower side radiator changed due to leakage
8	ECOR	13241	1	KGP	TSC changed due to damaged rotor
9	ECOR	16185	B	KGP	power contactor changed due to flashing
10	NR	70009	E	DLW	Rubber sleeve of TM 5 punched
11	NR	70009	6	DLW	HP section valve of compressor loosened
12	NR	40079	6	DLW	Radiator fan motor defective
13	NR	14004	5	DMW	F 1 selector valve joint gasket busted
14	NR	15048	C	DMW	Rectifier bus bar defective
15	NR	18986	M	CB	extension shaft allen bolt broken
16	NR	11162	5	CB	Air leakage from P 32 power contactor
17	NR	14745	B	CB	CK 2 movable contact allen bolt loose
18	NC	18726	B	LKO	WSR 2 rely spring missing
19	NC	16082	B	LKO	reversor contact no 2 found flashed
20	NC	16082	8	LKO	Governor LCP stucked
21	NC	12980	M	DLW	Battery run down
22	NF	16765	1	DMW	L3 cyl head valve broken
23	NF	18699	B	KGP	MFPB malfunctioning
24	NW	16871	M	All	RTTM blower bolt broken
25	NW	16768	2	DMW	L/S lube oil header pipe cracked
26	NW	16003	3	All	fuel secondary filter pipe broken
27	SR	14139	4	GOC	water leakage thro dressor joint
28	SR	16666	1	DMW	L 4 piston seized
29	SC	14699	C	GOC	ECC current clutch def.
30	SE	16746	2	DMW	L/O pressure dropped to zero on 7th notch
31	SE	12959	A	DLW	COMM. Failure between LCC & CCB
32	SE	12874	6	DLW	Air compressor HP section valve broken
33	SECR	16685	1	DMW	L 1 cyl exhaust valve fallen
34	SECR	16754	F	DMW	fuel pump broken connecting wire due to crimp
35	SW	13243	4	GOC	water leakage from R 2 Cyl header
36	WR	18570	M	All	improper fitment of RTTM blower housing
37	WR	11500	B	DMW	F1 CB not working
38	WC	13319	7	GOC	top gear case rubbing with axle hub
39	WC	13318	D	All	engine shetting due to TG failure
40	WC	12978	F	DLW	engine shetting due to AG wire uncuppled
41	WC	16755	M	DMW	FOP zero on 8th notch due to metallic part
42	WC	13329	2	PR	LO fitter drum pipe uncuppled
43	WC	16736	M	DMW	water leakage from after cooler pipe
44	WC	14882	A	PR	ECC speed sensor faulty
45	WC	12964	M	DLW	engine shutting down trouble
46	WC	16095	3	GOC	FOP zero on 8th notch due to FO/RV def.

DLW	DMW	JMP	CB	PR	KGP	GOC	All	Total
12	11	1	6	2	5	5	4	46