G16 CM 34 (GCM 34) Gas Engine Sr.No: 58001, Unit-1 Periodic Maintenance Schedule History

TMI Periodical Schedule-Hours	Activity Carried Date	Present Engine Service Meter Units/Hour Meter Reading	Description / Scheduled Works Done	Remarks
Every 24, 150, and 300	Regular		Described and maintained regular as O& M Activity as part of Periodic Scheduled Intervals during engine operation / standby condition. Records and dates available at site	Every 24,150, and 300 Hrs Periodic Maintenance Schedule has been carried as on going activity of O&M during engine operation / standby as per the TMI checks.
N/A	31/08/2007	1371	All Cylinder SOGAVs and Connecters replaced with new upgraded version	All necessary Spares have been supplied / procured by CATERPILLAR under product Improvement programe (PIP)
1500	9/12/2007	1630	Measured and recorded Ignition transfromers primary, secondary voltages	
			Measured and recorded Sparkplug extender resistance values	
			Checked and Adjested Valve roceker bridge clearances	
			4. Checked and Adjested inlet & exhaust Valve clearances	
			5.Checked measured and recorded rotator porjection	
			6.Replaced LS Alternator DE bearing Oil replaced with new	
	13/9/2007	1640	HT & LT circute drained and replaced with new water and added Nalcool2000	
	10/0/2007		2.Oilbath Filtrin Unit cleaned and added required Oil	
			3.HT & LT PHE's C/W side strainers cleaned	
			4. Main Gas filter inspeced and cleaned	
	20/9/07	1780	Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			Measured and recorded Sparkplug extender resistance values	
			Measured and recorded new sparkplug resistance values	
			All cylinder sparkplugs replaced with new	
	24/09/2007	1879	Main Gas filter replaced with New	As condition based / preventive mainteanace
	24/03/2007	1079	1. Wall Cas like replaced with New	As condition based / preventive mainteanace
3000	17/11/2007	3047	Checked and Adjusted Valve rocker bridge clearances	
			Checked and Adjusted inlet & exhaust Valve clearances	
	14/12/2007	3651	Measured and recorded Ignition transformers primary, secondary voltages	
			Measured and recorded Sparkplug extender resistance values Chapterd and Adjusted Value replace being a leavenage.	
			Checked and Adjusted Valve rocker bridge clearances Checked and Adjusted inlet & exhaust Valve clearances	
			Checked measured and recorded rotator projection	
			Removed all check valves and cleaned the tubing and surfaces	
			Cleaned all new check valves with cleaning solvent, inspected and replaced	
			8. Main Gas filter inspected and cleaned	
		1		
4500	1/0/0000	4710	A Management and an appeal of length on home from	
4500	1/2/2008	4719	Measured and recorded Ignition transformers primary, secondary voltages Measured and recorded Specialization of the secondary voltages.	
(1500)			Measured and recorded Sparkplug extender resistance values Measured and recorded new sparkplug resistance values	
			All cylinder sparkplugs replaced with new	
			Checked and Adjusted Valve rocker bridge clearances	
			Checked and Adjusted inlet & exhaust Valve clearances	
			7. Checked measured and recorded rotator projection	
			8. Inspected Turning device	
		1	9. Checked and cleaned IR Starting Air Motors	
			10. Inspected Timing gear train as visual and found normal	
		1	11. Inspected running gear and timing / Pick-up GP as visual and found normal	
		1	12. All cylinders Crankcase Explosion Relief valve inspected, cleaned and fixed back 13. Removed all cylinder's combustion sensor and replaced with new after inspection of	
			extenders, connecters and harness	
			14. Visual inspection done for con-rods, liners, bearings, and camshaft assemblies	As preventive mainteanace

			15. Oil bath Filtering Unit - A & B-Bank Sump cleaned and Oil replaced with new	As condition based maintenance
			16. LT PHE Pressure Plates and C/W Side Strainer cleaned and Fixed Back	As condition based monitoring maintenance
				3
6,000	1/4/2009	F070	1 Massured and recorded limition transformers primary according yellogo	
	1/4/2008	5978	Measured and recorded Ignition transformers primary, secondary voltages	
(1500, 3000)			2.Measured and recorded Sparkplug extender resistance values	
			3.Measured and recorded new sparkplug resistance values	
			All cylinder sparkplugs replaced with new	
			5.Checked and Adjusted Valve rocker bridge clearances	
			6. Checked and Adjusted inlet & exhaust Valve clearances	
			7. Checked measured and recorded rotator projection	
			8. Removed all check valves and cleaned the tubing and surfaces	
			9.Cleaned all new check valves with cleaning solvent, inspected and replaced	
			g,,,,	
	30/04/2008	6627	Wastegate Link-Rods replaced with new	As condition/ monitoring based maintenance
	30/04/2000	0027	1. Wastegate Link-Hods replaced with new	As condition/ monitoring based maintenance
			1 LC Alternator, DE and NDE side heaving Oil removed, flushed and alcohold the summ	
	2/5/2008	6668	1. LS Alternator, DE and NDE side bearing Oil removed, flushed and cleaned the sump.	Every 4,000 Hrs scheduled
			Replaced with new Oil	.,,
	12/5/2008	6822	1.Lube Oil replaced with new Mobil Pegasus- 905 after thorough cleaning of Oil sump	LO Changed as 7,500 hrs / condition based intial change
			Cleaned and inspected LO protective filter	
			Removed duplex filter cartridges and cleaned and fixed back	
			· · · · · · · · · · · · · · · · · · ·	
	21/06/2008	7546	1.HT PHE Pressure Plates and C/W Side Strainer cleaned and Fixed Back	As condition/ monitoring based maintenance
				g caree manner
7,500	23/6/2008	7546	Measured and recorded Ignition transformers primary, secondary voltages	
7,300	25/0/2000	7540	Measured and recorded sparkplug extender resistance values	
			3.Measured and recorded new sparkplug resistance values	
			4. All cylinder sparkplugs replaced with new	
			5.Checked measured and recorded rotator projection	
7.500	1/7/2002	7636	1.Checked and Adjusted Valve rocker bridge clearances	
- , - • •	1/7/2008	7000		
- ,===	1/1/2000	7030	Checked and Adjusted inlet & exhaust Valve clearances	
-,5		7000		
7,500	28/7/2008	8210	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000	
,				All necessary Spares have been supplied / procured by
,			1.HT & LT circuit drained and replaced with new water and added Nalcool-2000	All necessary Spares have been supplied / procured by CATERPILLAR under PSP (Product Support Program)
,			1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new	CATERPILLAR under PSP (Product Support Program)
,			1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci	CATERPILLAR under PSP (Product Support Program)
,			1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3.Replaced all Prechamber lower Part (Combustion Part) replaced with new,	CATERPILLAR under PSP (Product Support Program)
,			1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3.Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done	CATERPILLAR under PSP (Product Support Program)
,			1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3.Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection	CATERPILLAR under PSP (Product Support Program)
,			1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3.Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done	CATERPILLAR under PSP (Product Support Program)
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,	28/7/2008	8210	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors	CATERPILLAR under PSP (Product Support Program)
,	28/7/2008	8210 8211	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68	CATERPILLAR under PSP (Product Support Program) " As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68
,	28/7/2008	8210	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors	CATERPILLAR under PSP (Product Support Program)
7,500	28/7/2008 10/8/2008 30/8/2008	8210 8211 8479	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68	CATERPILLAR under PSP (Product Support Program) " As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68
7,500	28/7/2008	8210 8211	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68 1. Main gas Filter Replaced with New 1. Measured and recorded Ignition transformers primary, secondary voltages	CATERPILLAR under PSP (Product Support Program) " As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68
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7,500	28/7/2008 10/8/2008 30/8/2008	8210 8211 8479	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68 1. Main gas Filter Replaced with New 1. Measured and recorded Ignition transformers primary, secondary voltages 2. Measured and recorded Sparkplug extender resistance values 3. Checked and Adjusted Valve rocker bridge clearances 4. Checked and Adjusted inlet & exhaust Valve clearances 5. Checked measured and recorded rotator projection 9. Removed all cylinder's combustion sensor and replaced with new after inspection of	CATERPILLAR under PSP (Product Support Program) " As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68
7,500	28/7/2008 10/8/2008 30/8/2008	8210 8211 8479	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68 1. Main gas Filter Replaced with New 1. Measured and recorded Ignition transformers primary, secondary voltages 2. Measured and recorded Sparkplug extender resistance values 3. Checked and Adjusted Valve rocker bridge clearances 4. Checked and Adjusted inlet & exhaust Valve clearances 5. Checked measured and recorded rotator projection	CATERPILLAR under PSP (Product Support Program) " As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68
9,000 (3000, 4500,1500)	28/7/2008 10/8/2008 30/8/2008 29/9/2008	8210 8211 8479 9124	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68 1. Main gas Filter Replaced with New 1. Measured and recorded Ignition transformers primary, secondary voltages 2.Measured and recorded Sparkplug extender resistance values 3.Checked and Adjusted Valve rocker bridge clearances 4. Checked and Adjusted inlet & exhaust Valve clearances 5.Checked measured and recorded rotator projection 9. Removed all cylinder's combustion sensor and replaced with new after inspection of extenders, connecters and harness	As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68 As condition based maintenance
9,000 (3000, 4500,1500)	28/7/2008 10/8/2008 30/8/2008	8210 8211 8479	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68 1. Main gas Filter Replaced with New 1. Measured and recorded Ignition transformers primary, secondary voltages 2. Measured and recorded Sparkplug extender resistance values 3. Checked and Adjusted Valve rocker bridge clearances 4. Checked and Adjusted inlet & exhaust Valve clearances 5. Checked measured and recorded rotator projection 9. Removed all cylinder's combustion sensor and replaced with new after inspection of extenders, connecters and harness 1. Measured and recorded Ignition transformers primary, secondary voltages	CATERPILLAR under PSP (Product Support Program) " As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68
9,000 (3000, 4500,1500)	28/7/2008 10/8/2008 30/8/2008 29/9/2008	8210 8211 8479 9124	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68 1. Main gas Filter Replaced with New 1. Measured and recorded Ignition transformers primary, secondary voltages 2. Measured and recorded Sparkplug extender resistance values 3. Checked and Adjusted Valve rocker bridge clearances 4. Checked and Adjusted inlet & exhaust Valve clearances 5. Checked measured and recorded rotator projection 9. Removed all cylinder's combustion sensor and replaced with new after inspection of extenders, connecters and harness 1. Measured and recorded Ignition transformers primary, secondary voltages 2. Measured and recorded Ignition transformers primary, secondary voltages 2. Measured and recorded Sparkplug extender resistance values	As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68 As condition based maintenance
7,500 7,500 9,000 (3000, 4500,1500)	28/7/2008 10/8/2008 30/8/2008 29/9/2008	8210 8211 8479 9124	1.HT & LT circuit drained and replaced with new water and added Nalcool-2000 1. Removed All Cylinder heads and exchanged all inlet, Exh valve cones, guides and seats with new 2. All Cylder Pistons removed and replaced with new pistons including piston pins and ci 3. Replaced all Prechamber lower Part (Combustion Part) replaced with new, Inspection and testing done 4. Exhaust Gas manifold inspection 5. Checked and cleaned IR Starting Air Motors 9. Hudralic Oil replaced with new-Castroll - GP-Hyspin-68 1. Main gas Filter Replaced with New 1. Measured and recorded Ignition transformers primary, secondary voltages 2. Measured and recorded Sparkplug extender resistance values 3. Checked and Adjusted Valve rocker bridge clearances 4. Checked and Adjusted inlet & exhaust Valve clearances 5. Checked measured and recorded rotator projection 9. Removed all cylinder's combustion sensor and replaced with new after inspection of extenders, connecters and harness 1. Measured and recorded Ignition transformers primary, secondary voltages	As 7,500 hrs Scheduled - Castroll - GP-Hyspin-68 As condition based maintenance

	1		C Observed assessment and assessment distribution and in the contract of the c	T
			5. Checked measured and recorded rotator projection	
			6. Removed all check valves and cleaned the tubing and surfaces	
			7.Cleaned all new check valves with cleaning solvent, inspected and replaced	
			8. Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			9.Measured and recorded new sparkplug resistance values	
			10. All cylinder sparkplugs replaced with new	
			1. Oil bath Filtering Unit, Type K55-6V Pocket Filters replaced with new as part of 5000	
	2/1/2009	11149	hrs / Diff Filter alarms / Performance of CAC	As 5000 Hrs scheduled
			Ills / Bill I liter dialitis / I enotifiance of CAC	
	8/1/2009	11281	1.Checked measured and recorded rotator projection	
	0/1/2003	11201	Crankshaft Cold deflection checked and recorded	
			3.Oilbath Filtering Unit A & B Banks Oil sumps cleaned and replaced with new Shell	
			Tellus -68	As condition based maintenance
			Total Go	
12,000	8/2/2009	11910	Measured and recorded Ignition transformers primary, secondary voltages	
(3000, 1500, 4000)	0,=,=000		2.Measured and recorded Sparkplug extender resistance values	
(,			3.Checked and Adjusted Valve rocker bridge clearances	
			4.Checked and Adjusted inlet & exhaust Valve clearances	
			5.Checked measured and recorded rotator projection	
			6. Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			7.Measured and recorded new sparkplug resistance values	
			8.All cylinder sparkplugs replaced with new	
			S. LS Alternator DE Side Bearing Oil Replaced with New	As 4000 hrs scheduled
	18/03/2009	12794	1. HT PHE Pressure Plates and C/W Side Strainer cleaned and Fixed Back	As condition/ monitoring based maintenance
				-
13,500	10/5/2009	14042	1.Checked and Adjusted Valve rocker bridge clearances	As part of trouble shooting activity
(1500, 4500)			2.Checked and Adjusted inlet & exhaust Valve clearances	
			3.A4 Cylinder Sparkplug, detonation sensor and check valve replaced with new	
	14/5/2009	14125	Measured and recorded Ignition transformers primary, secondary voltages	Balance of 13,500 hrs as 4,500 hrs
			2.Measured and recorded Sparkplug extender resistance values	
			5.Checked measured and recorded rotator projection	
			6. Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			7.Measured and recorded new sparkplug resistance values	
			8. All cylinder sparkplugs replaced with new	
			9. Removed all check valves and cleaned the tubing and surfaces	
			10.Cleaned all new check valves with cleaning solvent, inspected and replaced	
			11. Removed all cylinder's combustion sensor and replaced with new after inspection	
			12. All Cylinders SOGAV replaced with new up graded version	All necessary Spares have been supplied / procured by CATERPILLAR under PSP (Product Support Program)
	21/05/2009	14282	LS Alternator DE Side Bearing Oil Replaced with New	As 4000 hrs scheduled
8,000 - 12,000	9/6/2009	14700	Both Turbochargers removed for inspection and sent to Vadodara ABB Service Station for cartridge cleaning and balancing purpose, Job carried under ABB supervision at Vadodara (Replaced Nozzle Ring & O-Ring Service Kit)	Cleaning, Inspection and assessment of cartridge as per ABB TMI, Nozzle Ring has been replaced as per ABB recommendation
	4/8/2009	15300	1. LS Alternator, DE and NDE side bearing Oil removed, flushed and cleaned the sump.	As condition/ monitoring based maintenance
	7/0/2003	10000	Replaced with new Oil	7.0 Somethorn monitoring based maintenance
15,000	20/09/2009	16246	CAC Opened, Cleaned core part and housing and fixed back with new Gaskets	As condition/ monitoring based maintenance
			2. A3 & A5 Cylinder Heads removed and inspected replaced inlet, exhaust seat cones	
			replaced with new	
			3. A5 Cylinder Piston, Big-Eng Bearing, and Main Bearings removed Inspected and	
			Fixed back	
			4. Cylinder A7 Main Bearing Inspected and Fixed back	
			5. Crankcase Oil ventilation / Oil recovery Unit Filters removed, cleaned and Inspected	
			6. Wastegate reconditioning carried out	

16,500			7. Measured and recorded Ignition transformers primary, secondary voltages	
(1,500)			Measured and recorded Sparkplug extender resistance values	
(1,000)			S. Middeled and recorded optimizing extension Checked measured and recorded rotator projection	
			10. Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			11.Measured and recorded new sparkplug resistance values	
			12. All cylinder sparkplugs replaced with new	
			13. Removed all check valves and cleaned the tubing and surfaces	
			14.Cleaned all new check valves with cleaning solvent, inspected and replaced	
			15. Checked and Adjusted Valve rocker bridge clearances	
			16. Checked and Adjusted inlet & exhaust Valve clearances	
			17. A3 & A5 Cylinders PCC removed, inspected, tested and fixed back	
			1777 to a ric of minoro i oo romovod, mopostod, tootod and mod basic	
			1. Lube Oil replaced with new Mobil Pegasus-905 after thorough cleaning and	LO Changed as part of 7,500 hrs scheduled / condition
	24/09/2009	16246	inspection of the oil sump	monitoring based
			Cleaned and inspected LO protective filter	mornioring bacoa
			Removed duplex filter cartridges and cleaned, inspected and fixed back	
			Wastegate reconditioning carried out as part of 7,500 hrs	
			Forced LO Pump general Inspection done	
			0.1 Greed LO 1 drift general mapeolion done	
16,500	26/09/09	16260	Checked and Adjusted Valve rocker bridge clearances	
(1,500)	20/03/03	10200	Checked and Adjusted valve locker bridge clearances Checked and Adjusted inlet & exhaust Valve clearances	
(1,300)			Crankshaft web Hot-Deflection checked and recorded	
			3. Orankshari web Hot-Denection checked and recorded	
			1. A4. A6 7 B4 Cynders conn- rodd bearing removed and inspected as per the	
	30/09/09	16276	CATERPILLAR recommendations / guide lines	CATERPILLAR - Preventive Guide lines / Inspection
			CATENFILLAN Teconimendations / guide lines	
	7/11/2009	17103	LT PHE Pressure Plates and C/W side strainer cleaned and fixed back	
	7/11/2009	17 103	1. LTTTILTTESSUTETTALES AND O/W SIDE STAINER CLEANED AND TIXED DACK	
18,000	22/12/2009	18038	Measured and recorded Ignition transformers primary, secondary voltages	
(4500,3000&1500)	22/12/2009	10030	Neasured and recorded spiritor transformers primary, secondary voltages Neasured and recorded Sparkplug extender resistance values	
(4500,5000&1500)			Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			A.Measured and recorded new sparkplug resistance values	
			All cylinder sparkplugs replaced with new	
			6. Removed all check valves and cleaned the tubing and surfaces	
			7.Cleaned all new check valves with cleaning solvent, inspected and replaced	
			P. Removed all cylinder's combustion sensor and replaced with new after inspection of	
			extenders, connecters and harness	
			extenders, connecters and namess	
18,000	24/12/2009	18039	1.Checked and Adjusted Valve rocker bridge clearances	
10,000	24/12/2009	10039	Checked and Adjusted valve rocker bridge clearances Checked and Adjusted inlet & exhaust Valve clearances	
			Checked and Adjusted filet & exhaust valve clearances Checked measured and recorded rotator projection	
			A. LS Alternator DE & NDE Bearing Oil replaced with new	Mobile Rarus - SHC -1026 as part of 4000 hrs scheduled
			+. Lo Alternator DE α NDE bearing On replaced with new	INIODITE MATUS - OFFO - 1020 AS PART OF 4000 HIS SCHEOUIED
19.500	6/3/2010	19575	Checked and Adjusted Valve rocker bridge clearances	
(1,500)	0/3/2010	193/3	2.Checked and Adjusted valve rocker bridge clearances 2.Checked and Adjusted inlet & exhaust Valve clearances	
(1,500)			Measured and recorded Ignition transformers primary, secondary voltages	
			Measured and recorded Ignition transformers primary, secondary voltages 4.Measured and recorded Sparkplug extender resistance values	
			5.Checked measured and recorded rotator projection	
			6. Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			7. Measured and recorded new sparkplug resistance values	
			8. All cylinder sparkplugs replaced with new	
			9. Removed all check valves and cleaned the tubing and surfaces	
			-	LO Changed : Oil grade changed from Mobil Pegasus 905 to
			10.Lube Oil replaced with new Mobil Pegasus-1005 after through cleaning of Oil sump	1005
				1000
			12. Cleaned and inspected LO protective filter	
			13. Removed duplex filter cartridges and cleaned and fixed back	
			1. Oil both Eiltoring Unit A Bonk Oil removed, alasmed assert and replace divide Obell	
	18/03/2010	19866	1. Oil bath Filtering Unit-A Bank Oil removed, cleaned sump and replaced with Shell Tellus- 68 Oil	As condition based monitoring maintenance

	T		2.15nos of Type K55-6V Pocket filters with new	As condition based monitoring maintenance
	+		3.CAC Removed and cleaned the core part with cleaning agent and fixed back	no condition based monitoring maintenance
			4. A1, A6,A8,B1,B3,B4,B5,B7 and B8 cylinders SOGAVs replaced with new up graded	All necessary Spares have been supplied / procured by
			version	CATERPILLAR under PSP (Product Support Program)
	26/3/2010	19951	1.Main Gas Filter Replaced with New	As condition based maintenance
	5/4/2010	20170	All Cylinder Heads removed and reconditioned with new Valve stems, Guides, and Seat Cones	All necessary Spares have been supplied / procured by CATERPILLAR under PSP (Product Support Program)
			2. All PCC Lower Part (Combustion Part) replaced with new	"
			Wastegate reconditioning and Hydraulic Cylinder replaced with new	As part of 7,500 hrs scheduled
			4.CAC Removed and cleaned the core part with cleaning agent and fixed back	As Part of Cylinders high temperature Investigation / finding root cause
	6/4/2010	20170	Both Turbochargers removed for cleaning parts, inspection and assesment of cartridges, Job carried under ABB supervision at GFL site (Replaced only O-Ring Service Kit) and fixed back	Cleaning, Inspection and assessment of cartridge by ABB
	0/5/00/0			. ====
	3/5/2010	20531	Hydraulic system oil filter replaced with new	As 7500 hrs scheduled
	9/5/2010	20531	CAC replaced with new	As condition based monitoring maintenance
	10/5/2010	20531	OMD Replaced with New	As part of trouble shooting
21,000	9/6/2010	21210	Measured and recorded Ignition transformers primary, secondary voltages	
(3000&1500)	3/0/2010	21210	2.Measured and recorded Sparkplug extender resistance values	
(000001000)			Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			4.Measured and recorded new sparkplug resistance values	
			5. All cylinder sparkplugs replaced with new	
			6.Checked and Adjusted Valve rocker bridge clearances	
			7. Checked and Adjusted inlet & exhaust Valve clearances	
			8.Checked measured and recorded rotator projection	
			Scheduled in a recorded rotation projection Scheduled and replaced solvent, inspected and replaced	
	25/6/2010	21585	Hydraulic Oil removed cleaned sump thoroughly and replaced with new	As 7,500 hrs Scheduled
22,500	23/08/10	22683	Measured and recorded Ignition transformers primary, secondary voltages	Balance of 22,500 hrs as 4,500 hrs
(4,500)	20/00/10	22000	2.Measured and recorded Sparkplug extender resistance values	Data loc of EE,000 life at 1,000 life
(1,000)			Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			4.Measured and recorded new sparkplug resistance values	
			5. All cylinder sparkplugs replaced with new	
			6.Checked and Adjusted Valve rocker bridge clearances	
			7. Checked and Adjusted inlet & exhaust Valve clearances	
			8.Checked measured and recorded rotator projection	
			9. Removed all cylinder's combustion sensor and replaced with new after inspection of	
			extenders, connecters and harness	
23,000	4/11/2010	24282	Measured and recorded Ignition transformers primary, secondary voltages	
(1,500)			2.Measured and recorded Sparkplug extender resistance values	
			3. Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			4.Measured and recorded new sparkplug resistance values	
			5. All cylinder sparkplugs replaced with new	

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24,500	10/11/2010	24411	Cleaned all new check valves with cleaning solvent, inspected and replaced	Balance of 24,000 hrs
(3000&1500)	10/11/2010	24411	1. Cleaned an new check valves with cleaning solvent, inspected and replaced	Balance of 24,000 fils
(3000&1300)			1. LS Alternator, DE and NDE side bearing Oil removed, flushed and cleaned the sump.	
	13/11/2010	24412	Replaced with new Oil	Mobile Rarus - SHC -1026, as part pf 4000 hrs scheduled
			riopiacoa marriori on	
26000	4/4/2011	26601	1. Measured and recorded Ignition transformers primary, secondary voltages	
(1,500)			2.Measured and recorded Sparkplug extender resistance values	
• • •			3. Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			4. Measured and recorded new sparkplug resistance values	
			5. All cylinder sparkplugs replaced with new	
	6/4/2011	26601	Checked and Adjusted Valve rocker bridge clearances	
			2.Checked and Adjusted inlet & exhaust Valve clearances	
			Checked measured and recorded rotator projection	
	7/5/0044	22272	LT DUE D	A 192 1 1 2 2 2 2 2
	7/5/2011	26670	LT PHE Pressure Plates cleaned with cleaning agent Z-76 - Descaler Powder	As condition based monitoring maintenance
			Oil bath Filtering Unit-B Bank Oil removed, cleaned sump and replaced with Shell	
	8/5/2011	26670	Tellus- 68 Oil	As condition based monitoring maintenance
			Tellus- 00 Oli	
	24/05/2011	26752	1. 15 nos pockets filters replaced with cleaned one	
	24/00/2011	20102	1. To thos pouncis filters replaced with dicarred one	
	00/=/0/0/		1.Cleaned all new check valves with cleaning solvent, inspected and replaced for	As per the customer request/ instructed engine started and
27,000	26/7/21011	27583	cylinders A1,A2,A3,A4	loaded as per the demand from the Plant
(3000&4500)				
	2/8/2011	27753	1.Cleaned new check valves with cleaning solvent, inspected and replaced for balance	Balance 27,000 of Maintenance Scheduled Jobs
	2/0/2011	27755	of the cylinders	Datance 21,000 of Maintenance ocheduled 0005
28500	19/8/2011	28122	Checked and Adjusted Valve rocker bridge clearances	
(1500)			2. Checked and Adjusted inlet & exhaust Valve clearances	
			3.Checked measured and recorded rotator projection	
			4. Removed all cylinder's combustion sensor and and cleaned connectors, harness	
			pins, extenders and measured the values 5. Removed all cylinder's combustion sensor and replaced with new after inspection	
			3. Hemoved all cylinder's combustion sensor and replaced with new after inspection	
	7/9/2011	28562	Measured and recorded Ignition transformers primary, secondary voltages	Balance 28,500 of Maintenance Scheduled Jobs
			Measured and recorded Sparkplug extender resistance values	-,
			Removed all sparkplugs and cleaned the seat with seat cleaning tool	
			Measured and recorded new sparkplug resistance values	
			5. All cylinder sparkplugs replaced with new	
		-		
	25/10/2011	29025	1. LS Alternator, DE and NDE side bearing Oil removed, flushed and cleaned the sump.	Mobile Rarus - SHC -1026 as part of 4000 hrs scheduled
	20,10,2011	20020	Replaced with new Oil	mesile i large of to 1020 as part of 4000 file somediled
	+		1.Lube Oil replaced with new Mobil Pegasus-1005 after thorough cleaning ans	
	4/1/2012	29059	inspection of the oil sump	LO Changed : Mobil Pegasus 1005
			Cleaned and inspected LO protective filter	
			Removed duplex filter cartridges removed, cleaned and fixed back	