

<u>S. No</u>	<u>Description</u>	<u>WDM2</u>	<u>WDM3A</u>	<u>WDG3A</u>	<u>WDP1</u>	<u>YDM4/4A</u>	<u>WDP4</u>	<u>WDG4</u>
1)	Service	Goods/ Coaching	Goods/ Coaching	Goods	Coaching	Goods/ Coaching	Coaching	Goods
2)	Length in Meters	17.12	17.12	19.15	16.09	13.82	21.24	21.24
3)	Weight in Tonnes	112.8	112.8	123	80	72	117	128.5
4)	MPS in KMPH	120	120	100	120	96	160	100
5)	Engine RPM in Idle	400	400	400	400	400	269	269
6)	Engine RPM (8 th Notch)	1000	1050	1050	1000	1100	904	904
7)	OSTA Tripping RPM	1110-1150	1160-1200	1160-1200	1110-1150	1210-1250	960-1045	960-1045
8)	Air Filtration	Panel type/Cyclonic with paper type secondary filters	Cyclonic with bigger size of filters and paper type secondary filters	Cyclonic with bigger size of filters and paper type secondary filters	Cyclonic with bigger size of filters and paper type secondary filters	Air maize oil bath filters	Cyclonic type primary and Baggy type secondary filters	Cyclonic type primary and Baggy type secondary filters
9)	Brake System	28LAV1 & IRAB1	IRAB1	IRAB1 & 28LAV 1	28LAV1	28 LV 1	CCB	CCB
10)	Fuel Oil Tank Capacity	5000	5000	6000	3000	3000	6000	6000
11)	Lube Oil Sump Capacity	910	1110	1110	760	530	950	1457
12)	Cooling Water Capacity	1210	1210	1210	1210	530	1045	1154
13)	Type of Governor	GEG/WWG	GEG/WWG	GEG/WWG	GEG/WWG	WWG	WWG	WWG
14)	Input to Traction HP	2400	2750	2750	2000	1200	3726	3726

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15)	Tractive effort Maximum in KGs	28050	28050	37884		18935	27550	53000
16)	Adhesion	27%	27%	30.8%		26.3%	43%	43%
17)	Weight transfer to wheels through	Centre Pivot 60% Side bearer 40%	Centre Pivot 60% Side bearer 40%	Side load pads 100%	Side Spring Groups 100%	YDM4 CP-60% SB-40% YDM4A SB-100%	Side rubber resilient pads 100%	Side rubber resilient pads 100%
18)	Axle Load(Tonnes)	18.8	18.8	20.5	20	12	19.5	21.42
19)	Bogie	Cast	Cast	Fabricated	Fabricated	Cast	HTSC	HTSC
20)	Gear Ratio (Pinion:Bull Gear)	18:65	18:65	18:74	18:65	19:92	17:77	17:90
21)	Traction Motor arrangements	LLR/LRR	LLR/LRR	LLL/RRR	LR/RL	LLR/LRR	LL/RR	LLL/RRR
22)	Electrical Transmission type	DC/DC	AC/DC	AC/DC	AC/DC	DC/DC	AC/AC	AC/AC
23)	Cranking done by	Generator working as Motor	Exciter and Aux. Generator working as Motors	Exciter and Aux. Generator working as Motors	Exciter and Aux. Generator working as Motors	Generator working as Motor	Two Starter Motors (DC)	Two Starter Motors (DC)
24)	Loco Drive	Right Hand	Left Hand	Left Hand	Left Hand	Right Hand	Left Hand	Left Hand

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25)	Master controller	Alco model Handle with TH/DB and reverser handle	UIC model hand wheel with TH/DB and reverser handle	UIC model hand wheel with TH/DB selector and reverser handle	UIC model hand wheel with Throttle and reverser handle	Alco model Handle with TH/DB and reverser handle	Handle with TH/DB and reverser handle	Handle with TH/DB and reverser handle
26)	Transition	3 (with Field Shunting)	1 (No Field Shunting)	1 (No Field Shunting)	1 (with field shunting)	1 (SP to P) 1 (Field shunting)	No Transition	No Transition
27)	Dynamic Brake Facility	Available	Available	Available	Not Available	Available	Available	Available
28)	TM Isolation	Defective TM can be Isolated	Defective TM can be Isolated	Defective TM can be Isolated	Defective TM can be Isolated	Defective TM can be Isolated	Particular Truck to be Isolated	Particular Truck to be Isolated
29)	In case of TM Isolation D.B.	Will not function	Will not function	Will not function	Not Applicable	Will not function	Will function for working truck	Will function for working truck
30)	Type of Engine	4 Stroke V-16 Turbo super charged diesel engine	4 Stroke V-16 Turbo super charged diesel engine	4 Stroke V-16 Turbo super charged diesel engine	4 Stroke V-12 Turbo super charged diesel engine	4 Stroke , 6 Cylinder inline, Turbo charged diesel engine	2 Stroke V-16 Turbo charged diesel engine	2 Stroke V-16 Turbo charged diesel engine

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31)	Type of Turbo used	720A/ABB/NAPIER	ABB/NAPIER	ABB/NAPIER	ABB/NAPIER	350C	GM	GM
32)	Working of Turbo	Exhaust gas driven Turbo	Exhaust gas driven Turbo	Exhaust gas driven Turbo	Exhaust gas driven Turbo	Exhaust gas driven Turbo	Gear/Exhaust gas driven Turbo	Gear/Exhaust gas driven Turbo
33)	Type of Truck	Side bearers centre pivot co-co type	Side bearers centre pivot co-co type	Side Load pads, Center Pivot, co-co type	Side Spring Groups, Center pivot, BO-BO Type	Tri-mount/Tetra Mount co-co type	Side Load pads, Center Pivot, co-co type	Side Load pads, Center Pivot, A-A-1, 1-A-A
34)	Expressor / Compressor cooling	Air cooled	Air cooled	Air cooled	Air cooled	Air cooled	Water cooled.	Water cooled.
35)	Fuel Injection System	Through separate fuel injection pumps and injectors	Through separate fuel injection pumps and injectors	Through separate fuel injection pumps and injectors	Through separate fuel injection pumps and injectors	Through separate fuel injection pumps and injectors	Direct fuel injection by Unit Injectors	Direct fuel injection by Unit Injectors
36)	Engine lube oil system	One lube oil pump, gear driven for entire lube oil system	One lube oil pump, gear driven for entire lube oil system	One lube oil pump, gear driven for entire lube oil system	One lube oil pump, gear driven for entire lube oil system	One lube oil pump, gear driven for entire lube oil system	4 lube oil pumps, 3 gear driven, 1 Electrical motor driven	4 lube oil pumps, 3 gear driven, 1 Electrical motor driven

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37)	Cooling Water System	One Water pump, gear driven, one radiator fan driven by Engine through ECC	One Water pump, gear driven, one radiator fan driven by Engine through ECC	One Water pump, gear driven, one radiator fan driven by Engine through ECC	One Water pump, gear driven, one radiator fan driven by Engine through ECC	One Water pump, gear driven, one radiator fan driven by Engine through ECC	Two water pumps gear driven, two radiator fans driven by ELE. Motors	Two water pumps gear driven, two radiator fans driven by ELE. Motors
38)	Lube oil consumption per every 100 Lts of Fuel Oil Consumption	1.5 Liters	1.5 Liters	1.5 Liters	1.5 Liters	1.5 Liters	0.5 Liters	0.5 Liters
39)	Minimum Radius of Curvature (Meters)	73.2	73.2	73.2	73.2	45.75	64.92	64.92
40)	Minimum continous Speed (KMPH)	18	22.8			11.6	22.5	22.5