The group G is isomorphic to the group labelled by [72, 44] in the Small Groups library.
Ordinary character table of $G \cong A4 \times S3$:

	1a	3a	3b	2a	2b	6a	6b	2c	3c	3d	3e	6c
χ_1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	1	1	1	-1	-1	-1	-1	1	1	1	1
χ_3	1	$E(3)^2$	$E(3)$	1	-1	$-E(3)^2$	$-E(3)$	-1	1	$E(3)^2$	$E(3)$	1
χ_4	1	$E(3)$	$E(3)^2$	1	-1	$-E(3)$	$-E(3)^2$	-1	1	$E(3)$	$E(3)^2$	1
χ_5	1	$E(3)^2$	$E(3)$	1	1	$E(3)^2$	$E(3)$	1	1	$E(3)^2$	$E(3)$	1
χ_6	1	$E(3)$	$E(3)^2$	1	1	$E(3)$	$E(3)^2$	1	1	$E(3)$	$E(3)^2$	1
χ_7	2	2	2	2	0	0	0	0	-1	-1	-1	-1
χ_8	2	$2*E(3)^2$	$2*E(3)$	2	0	0	0	0	-1	$-E(3)^2$	$-E(3)$	-1
χ_9	2	$2*E(3)$	$2*E(3)^2$	2	0	0	0	0	-1	$-E(3)$	$-E(3)^2$	-1
χ_{10}	3	0	0	-1	-3	0	0	1	3	0	0	-1
χ_{11}	3	0	0	-1	3	0	0	-1	3	0	0	-1
χ_{12}	6	0	0	-2	0	0	0	0	-3	0	0	1

Trivial source character table of $G \cong A4 \times S3$ at $p = 2$:

Normalisers N_i	N_1						N_2			N_3		N_4	N_5						N_6	N_7	N_8		
p-subgroups of G up to conjugacy in G	P_1						P_2			P_3		P_4	P_5						P_6	P_7	P_8		
Representatives $n_j \in N_i$	1a	3a	3b	3c	3d	3e	1a	3b	3a	1a	3a	1a	1a	3b	3c	3a	3e	3d	1a	1a	1a	3b	3a
$0\chi_1+0\chi_2+0\chi_3+1\chi_4+0\chi_5+1\chi_6+0\chi_7+0\chi_8+0\chi_9+1\chi_{10}+1\chi_{11}+0\chi_{12}$	8	$2*E(3)$	$2*E(3)^2$	8	$2*E(3)$	$2*E(3)^2$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\chi_1+0\chi_2+1\chi_3+0\chi_4+1\chi_5+0\chi_6+0\chi_7+0\chi_8+0\chi_9+1\chi_{10}+1\chi_{11}+0\chi_{12}$	8	$2*E(3)^2$	$2*E(3)$	8	$2*E(3)^2$	$2*E(3)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1\chi_1+1\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+0\chi_7+0\chi_8+0\chi_9+1\chi_{10}+1\chi_{11}+0\chi_{12}$	8	2	2	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+0\chi_7+0\chi_8+1\chi_9+0\chi_{10}+0\chi_{11}+1\chi_{12}$	8	$2*E(3)$	$2*E(3)^2$	-4	$-E(3)$	$-E(3)^2$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+0\chi_7+1\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+1\chi_{12}$	8	$2*E(3)^2$	$2*E(3)$	-4	$-E(3)^2$	$-E(3)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+1\chi_7+0\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+1\chi_{12}$	8	2	2	-4	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+1\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+1\chi_{11}+0\chi_{12}$	4	$E(3)$	$E(3)^2$	4	$E(3)$	$E(3)^2$	4	$E(3)^2$	$E(3)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+1\chi_5+0\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+1\chi_{11}+0\chi_{12}$	4	$E(3)^2$	$E(3)$	4	$E(3)^2$	$E(3)$	4	$E(3)$	$E(3)^2$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+1\chi_{11}+0\chi_{12}$	4	1	1	4	1	1	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1\chi_1+1\chi_2+1\chi_3+1\chi_4+1\chi_5+1\chi_6+0\chi_7+0\chi_8+0\chi_9+1\chi_{10}+1\chi_{11}+0\chi_{12}$	12	0	0	12	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+1\chi_7+1\chi_8+1\chi_9+0\chi_{10}+0\chi_{11}+1\chi_{12}$	12	0	0	-6	0	0	0	0	0	4	-2	0	0	0	0	0	0	0	0	0	0	0	0
$1\chi_1+0\chi_2+0\chi_3+0\chi_4+1\chi_5+1\chi_6+0\chi_7+0\chi_8+0\chi_9+2\chi_{10}+1\chi_{11}+0\chi_{12}$	12	0	0	12	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
$1\chi_1+1\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	2	2	2	2	2	2	0	0	0	2	2	0	2	2	2	2	2	2	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+1\chi_7+0\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	2	2	2	-1	-1	-1	0	0	0	2	-1	0	2	2	-1	2	-1	-1	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+0\chi_7+1\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	2	$2*E(3)^2$	$2*E(3)$	-1	$-E(3)^2$	$-E(3)$	0	0	0	2	-1	0	2	$2*E(3)$	-1	$2*E(3)^2$	$-E(3)$	$-E(3)^2$	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+0\chi_7+0\chi_8+1\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	2	$2*E(3)$	$2*E(3)^2$	-1	$-E(3)$	$-E(3)^2$	0	0	0	2	-1	0	2	$2*E(3)^2$	-1	$2*E(3)$	$-E(3)^2$	$-E(3)$	0	0	0	0	0
$0\chi_1+0\chi_2+1\chi_3+0\chi_4+1\chi_5+0\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	2	$2*E(3)^2$	$2*E(3)$	2	$2*E(3)^2$	$2*E(3)$	0	0	0	2	2	0	2	$2*E(3)$	2	$2*E(3)^2$	$2*E(3)$	$2*E(3)^2$	0	0	0	0	0
$0\chi_1+0\chi_2+0\chi_3+1\chi_4+0\chi_5+1\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	2	$2*E(3)$	$2*E(3)^2$	2	$2*E(3)$	$2*E(3)^2$	0	0	0	2	2	0	2	$2*E(3)^2$	2	$2*E(3)$	$2*E(3)^2$	$2*E(3)$	0	0	0	0	0
$1\chi_1+0\chi_2+0\chi_3+0\chi_4+1\chi_5+1\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+1\chi_{11}+0\chi_{12}$	6	0	0	6	0	0	6	0	0	2	2	2	0	0	0	0	0	0	2	0	0	0	0
$1\chi_1+0\chi_2+0\chi_3+0\chi_4+1\chi_5+1\chi_6+0\chi_7+0\chi_8+0\chi_9+1\chi_{10}+0\chi_{11}+0\chi_{12}$	6	0	0	6	0	0	0	0	0	2	2	4	0	0	0	0	0	0	0	2	0	0	0
$1\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+0\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+1\chi_5+0\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	$E(3)$	$E(3)^2$	1	1	1	1	$E(3)$	1	$E(3)^2$	$E(3)$	$E(3)^2$	1	1	1	$E(3)$	$E(3)^2$
$0\chi_1+0\chi_2+0\chi_3+0\chi_4+0\chi_5+1\chi_6+0\chi_7+0\chi_8+0\chi_9+0\chi_{10}+0\chi_{11}+0\chi_{12}$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	$E(3)^2$	$E(3)$	1	1	1	1	$E(3)^2$	1	$E(3)$	$E(3)^2$	$E(3)$	1	1	1	$E(3)^2$	$E(3)$

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(2,3)]) \cong C2$
$P_3 = Group([(4,5)(6,7)]) \cong C2$
$P_4 = Group([(2,3)(4,5)(6,7)]) \cong C2$
$P_5 = Group([(4,5)(6,7),(4,7)(5,6)]) \cong C2 \times C2$
$P_6 = Group([(2,3),(4,7)(5,6)]) \cong C2 \times C2$
$P_7 = Group([(2,3)(4,5)(6,7),(4,7)(5,6)]) \cong C2 \times C2$
$P_8 = Group([(2,3),(4,5)(6,7),(4,7)(5,6)]) \cong C2 \times C2 \times C2$

$N_1 = Group([(2,3),(5,7,6),(4,5)(6,7),(4,6)(5,7),(1,2,3)]) \cong A4 \times S3$
$N_2 = Group([(2,3),(5,7,6),(4,6)(5,7),(4,7)(5,6)]) \cong C2 \times A4$
$N_3 = Group([(4,5)(6,7),(4,6)(5,7),(4,7)(5,6),(2,3),(1,3,2)]) \cong C2 \times C2 \times S3$
$N_4 = Group([(2,3)(4,5)(6,7),(4,6)(5,7),(4,7)(5,6),(2,3)]) \cong C2 \times C2 \times C2$
$N_5 = Group([(2,3),(5,7,6),(4,5)(6,7),(4,6)(5,7),(1,2,3)]) \cong A4 \times S3$
$N_6 = Group([(4,7)(5,6),(2,3),(4,6)(5,7)]) \cong C2 \times C2$
$N_7 = Group([(4,7)(5,6),(2,3)(4,5)(6,7),(2,3)]) \cong C2 \times C2 \times C2$
$N_8 = Group([(4,7)(5,6),(4,5)(6,7),(2,3),(5,7,6)]) \cong C2 \times A4$