

Table 3.4 OFFROAD Equipment Emission Factors

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Cranes	2011	501	750	18.709	0.547	1.935	5.333	0.005	0.2	0.2	568.299	0.049
Cranes	2011	1001	9999	66.479	0.607	2.253	6.765	0.005	0.209	0.209	568.299	0.054
Cranes	2012	26	50	7.056	2.699	7.301	6.073	0.007	0.632	0.632	568.3	0.243
Cranes	2012	51	120	6.29	1.112	4.136	6.623	0.006	0.604	0.604	568.299	0.1
Cranes	2012	121	175	6.973	0.769	3.422	5.842	0.006	0.339	0.339	568.299	0.069
Cranes	2012	176	250	7.065	0.558	1.572	5.428	0.006	0.196	0.196	568.299	0.05
Cranes	2012	251	500	10.472	0.515	1.795	4.836	0.005	0.18	0.18	568.299	0.046
Cranes	2012	501	750	17.723	0.518	1.794	4.96	0.005	0.182	0.182	568.299	0.046
Cranes	2012	1001	9999	63.479	0.58	2.095	6.408	0.005	0.198	0.198	568.299	0.052
Cranes	2013	26	50	6.501	2.487	7.087	5.868	0.007	0.586	0.586	568.299	0.224
Cranes	2013	51	120	5.886	1.041	4.099	6.242	0.006	0.558	0.558	568.299	0.093
Cranes	2013	121	175	6.607	0.729	3.41	5.495	0.006	0.314	0.314	568.299	0.065
Cranes	2013	176	250	6.664	0.527	1.493	5.04	0.006	0.177	0.177	568.3	0.047
Cranes	2013	251	500	9.934	0.489	1.669	4.49	0.005	0.163	0.163	568.299	0.044
Cranes	2013	501	750	16.811	0.492	1.668	4.608	0.005	0.165	0.165	568.299	0.044
Cranes	2013	1001	9999	60.82	0.555	1.95	6.067	0.005	0.186	0.186	568.3	0.05
Cranes	2014	26	50	5.97	2.284	6.883	5.669	0.007	0.541	0.541	568.3	0.206
Cranes	2014	51	120	5.503	0.973	4.065	5.88	0.006	0.513	0.513	568.299	0.087
Cranes	2014	121	175	6.259	0.691	3.399	5.168	0.006	0.291	0.291	568.299	0.062
Cranes	2014	176	250	6.274	0.496	1.427	4.605	0.006	0.16	0.16	568.299	0.044
Cranes	2014	251	500	9.402	0.463	1.561	4.095	0.005	0.148	0.148	568.299	0.041
Cranes	2014	501	750	15.911	0.465	1.56	4.207	0.005	0.15	0.15	568.299	0.042
Cranes	2014	1001	9999	58.445	0.534	1.817	5.74	0.005	0.175	0.175	568.299	0.048
Cranes	2015	26	50	5.465	2.091	6.689	5.476	0.007	0.496	0.496	568.3	0.188
Cranes	2015	51	120	5.127	0.907	4.033	5.464	0.006	0.47	0.47	568.299	0.081
Cranes	2015	121	175	5.888	0.65	3.39	4.728	0.006	0.267	0.267	568.299	0.058
Cranes	2015	176	250	5.923	0.468	1.374	4.197	0.006	0.145	0.145	568.299	0.042
Cranes	2015	251	500	8.921	0.439	1.471	3.727	0.005	0.134	0.134	568.299	0.039
Cranes	2015	501	750	15.098	0.442	1.47	3.833	0.005	0.136	0.136	568.299	0.039
Cranes	2015	1001	9999	55.619	0.508	1.695	5.426	0.005	0.162	0.162	568.299	0.045
Cranes	2016	26	50	4.988	1.908	6.508	5.291	0.007	0.452	0.452	568.299	0.172
Cranes	2016	51	120	4.765	0.843	4.003	5.072	0.006	0.428	0.428	568.299	0.076
Cranes	2016	121	175	5.524	0.609	3.383	4.314	0.006	0.244	0.244	568.299	0.055
Cranes	2016	176	250	5.608	0.443	1.334	3.818	0.006	0.131	0.131	568.299	0.04
Cranes	2016	251	500	8.487	0.418	1.398	3.383	0.005	0.122	0.122	568.299	0.037
Cranes	2016	501	750	14.364	0.42	1.397	3.485	0.005	0.124	0.124	568.299	0.037
Cranes	2016	1001	9999	52.82	0.482	1.583	5.127	0.005	0.149	0.149	568.299	0.043
Cranes	2017	26	50	4.545	1.739	6.342	5.115	0.007	0.41	0.41	568.299	0.156
Cranes	2017	51	120	4.421	0.782	3.976	4.709	0.006	0.386	0.386	568.299	0.07
Cranes	2017	121	175	5.168	0.57	3.376	3.925	0.006	0.222	0.222	568.299	0.051
Cranes	2017	176	250	5.317	0.42	1.303	3.462	0.006	0.118	0.118	568.299	0.037
Cranes	2017	251	500	8.084	0.398	1.338	3.062	0.005	0.11	0.11	568.299	0.035
Cranes	2017	501	750	13.681	0.4	1.338	3.158	0.005	0.112	0.112	568.299	0.036
Cranes	2017	1001	9999	50.103	0.457	1.485	4.844	0.005	0.137	0.137	568.299	0.041
Cranes	2018	26	50	4.138	1.583	6.194	4.949	0.007	0.37	0.37	568.299	0.142
Cranes	2018	51	120	4.092	0.723	3.95	4.371	0.006	0.347	0.347	568.299	0.065
Cranes	2018	121	175	4.819	0.532	3.371	3.557	0.006	0.2	0.2	568.299	0.048
Cranes	2018	176	250	5.038	0.398	1.277	3.125	0.006	0.107	0.107	568.299	0.035
Cranes	2018	251	500	7.697	0.379	1.289	2.76	0.005	0.1	0.1	568.299	0.034
Cranes	2018	501	750	13.024	0.381	1.288	2.849	0.005	0.101	0.101	568.299	0.034
Cranes	2018	1001	9999	47.536	0.434	1.402	4.582	0.005	0.125	0.125	568.299	0.039
Cranes	2019	26	50	3.76	1.438	6.059	4.792	0.007	0.332	0.332	568.299	0.129
Cranes	2019	51	120	3.775	0.667	3.927	4.055	0.006	0.308	0.308	568.299	0.06
Cranes	2019	121	175	4.477	0.494	3.366	3.208	0.006	0.178	0.178	568.299	0.044
Cranes	2019	176	250	4.769	0.377	1.255	2.807	0.006	0.096	0.096	568.3	0.034
Cranes	2019	251	500	7.322	0.36	1.246	2.48	0.005	0.09	0.09	568.3	0.032
Cranes	2019	501	750	12.383	0.362	1.246	2.558	0.005	0.091	0.091	568.3	0.032
Cranes	2019	1001	9999	45.156	0.412	1.336	4.341	0.005	0.114	0.114	568.299	0.037
Cranes	2020	26	50	3.411	1.305	5.937	4.643	0.007	0.296	0.296	568.299	0.117
Cranes	2020	51	120	3.474	0.614	3.904	3.758	0.006	0.271	0.271	568.299	0.055
Cranes	2020	121	175	4.15	0.458	3.362	2.879	0.006	0.158	0.158	568.299	0.041
Cranes	2020	176	250	4.512	0.356	1.236	2.507	0.006	0.086	0.086	568.299	0.032
Cranes	2020	251	500	6.966	0.343	1.211	2.223	0.005	0.081	0.081	568.299	0.03