Table 1. List of lines observed in the CRIRES spectrum of HD 154708. The adopted parameters are $T_{\rm eff}$=6800 K, log g=4.11 (Nesvacil et al. 2008). The radial velocity shift between the observed wavelength positions of the spectral lines and their laboratory wavelengths is 15 km sec^{-1}.

λ(obs) [Å]	R$_c$(obs)	Element	λ(lab) [Å]	log gf	$\chi_{\rm low}$ [cm^{-1}]	$\chi_{\rm up}$ [cm^{-1}]	Source[a]	Notes
10747.4	0.94	component						
10749.39	0.80	Si I	10749.378	−0.272	39760.285	49060.601	NIST4	
10751.4	0.93	component						
10769.7	0.98	?						
10771.0	0.975	?						
10809.8	0.92	component						
10811.1	0.84	Mg I	10811.053	+0.024	47957.045	57204.305	NIST4	
		Mg I	10811.076	−0.137	47957.027	57204.267	NIST4	
		Mg I	10811.097	−1.038	47957.045	57204.267	NIST4	
		Mg I	10811.122	−1.036	47957.027	57204.228	NIST4	
		Mg I	10811.158	−0.305	47957.058	57204.228	NIST4	
10812.3	0.91	component						
10814.4	0.99	?						
10825.2	0.92	component						
10827.1	0.75	Si I	10827.089	+0.239	39955.053	49188.617	NIST4	
10829.2	0.93	component						
10834.3	0.96	component						blend with telluric
10836.1	0.925	Dy II	10835.94	−0.77	16177.40	25343.42	VALD	
10837.8	0.965	component						
10839.0	0.98	Ca I	10838.97	+0.238	39340.080	48563.522	K07Ca	
10842.5	0.92	component						
10844.12	0.83	Si I	10843.858	+0.220	47284.061	56503.346	NIST4	
10845.7	0.92	component						
10848.6	0.98	?						
10867.3	0.94:	guessed component						blend
10868.65	0.82	Si I	10868.790	−0.010	49933.775	59131.912	MB99	blend with telluric
10870.35	0.90	guessed component						
10868.0	0.88	guessed component						blend
10869.55	0.78	Si I	10869.536	+0.286	40991.884	50189.389	NIST4	
10870.8	0.90	component						
10882.02	0.94	?						
10883.5	0.90	?						
10884.85	0.92	?						
10885.45	0.90	Si I	1088.5333	−0.100	49850.83	59034.988	MB99	
10914.3	0.85	component						
10915.15	0.81	Sr II	10914.887	−0.638	14555.900	23715.190	WA	
10916.1	0.88	component						
10936.7	0.74	component ?						
10938.0	0.70	H I	10938.086	+0.002	9742.304	109250.343	NIST4	
10939.6	0.74	component ?						
10950.8	0.96	?						
10951.95	0.94	Mg II	10951.778 ?	−0.219	71491.063	80619.500	NIST4	
10953.2	0.935	Mg I	10953.320 ?	−0.863	47841.119	56968.271	NIST4	
10954.6	0.94	?						
10954.85	0.92	?						
10956.2	0.91	?						
10958.0	0.96	?						

Table 1. Continued.

λ(obs) [Å]	R_c(obs)	Element	λ(lab) [Å]	log gf	χ_{low} [cm^{-1}]	χ_{up} [cm^{-1}]	Source[a]	Notes
10979.2	0.84	Si I	10979.308	−0.562	39955.053	49060.601	NIST4	blend with telluric
10980.6	0.98	?						
10981.85	0.90	Si I	10982.058	−0.270	49933.775	59037.043	MB99	
10983.6	0.90	?						
10985.4	0.96	?						
11015.7	0.95	Cr I	11015.679	−0.42	27820.198	36895.681	K10Cr1	
11016.2	0.87	component						
11017.9	0.83	Si I	11017.966	+0.310	50054.800	59128.400	MB99	
11019.3	0.91	component						
15528.0-15530.	0.97	?						broad
15532.3	0.965	?						
15533.55	0.960	?						
15536.7	0.97	?						broad
15542.15	0.98	Fe I	15542.079	−0.336	45509.149	51941.537	K07	
15556.0	0.96	component ?						
		H I	15556.467	−1.166	101823.904	109250.343	NIST4	continuum
		Si I	15557.779	−0.540	48102.323	54528.220	NIST4	not observed !
15559.8	0.955	component ?						
15621.70	0.96	Fe I	15621.654	+0.586	44677.003	51076.625	K07	
15631.90	0.96	Fe I	15631.948	+0.122	43163.323	49558.731	K07	
15648.55	0.985	Fe I	15648.510	−0.596	43763.977	50152.616	K07	
15653.00	0.99	Fe I	15652.874	−0.170	50377.905	56764.763	K07	
15661.95	0.98	Fe I	15662.016	+0.382	47005.503	53388.633	K07	
15665.25	0.985	Fe I	15665.243	−0.338	48221.321	54603.136	K07	
15715.80	0.97	Ce III	15715.837	−3.080	0.000	8361.000	BIE	blend with telluric
15727.40	0.99	C I	15727.376	−0.682	77679.831	84036.327	NIST4	
15740.00	0.98	?						on telluric wing
15746.0-15748.0	0.915	component?						broad
		Mg I	15748.886	−0.338	47844.414	54192.335	NIST4	not observed
		Mg I	14748.998	+0.140	47844.414	54192.294	NIST4	not observed
15749.4	0.90	component						
15750.3	0.91	component						
15762.90	0.94	?						
15764.45	0.89	component						
15766.0	?	Mg I	15765.645	−1.514	47851.162	54192.335	NIST4	blend with telluric
	?	Mg I	15765.747	−0.337	47851.162	54192.294	NIST4	
	?	Mg I	15765.842	+0.411	47851.162	54192.256	NIST4	
15767.1	0.90	component						
15769.35	0.92	Fe I	15769.423	+0.700	44677.003	51016.657	K07	
15770.50	0.93	Fe I	15770.619	+0.448	50807.994	57147.167	K07	blend with telluric
15822.70	0.98	Fe I	15822.817	+0.181	45509.149	51827.410	K07	
15827.30	0.98	Si I	15827.213	−0.690	57198.027	63514.533	MB99	
15830.0	0.96	component ?						
15832.7	0.945	component ?						
		Si I	15833.602	−0.450	50189.389	56503.346	MB99	not observed !
15834.4	0.955	component ?						
15836.4	0.945	component ?						

Table 1. Continued.

λ(obs) [Å]	R_c(obs)	Element	λ(lab) [Å]	log gf	χ_{low} [cm^{-1}]	χ_{up} [cm^{-1}]	Source[a]	Notes
15844.70	0.92	component						
15847.70	0.73	Ce III	15847.550	−1.030	1528.320	7836.720	BIE	
15850.80	0.88	component						

[a]BIE: Biémont, 2011 (private communication),
MB99: Meléndez & Barbuy, 1999,
NIST4: http://www.nist.gov/pml/data/asd.cfm,
K07: http://kurucz.cfa.harvard.edu/atoms/2600/gf2600.pos,
VALD: http://vald.astro.univie.ac.at/ vald/php/vald.php
WA: Warner, 1968.