

Table 5: Rapid Visco Analyser results

Number of samples	Region	Peak viscosity, cP			Minimum viscosity (Trough), cP			Breakdown, cP			Final viscosity, cP			Peak time, min		
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: B1																
6	Region 3	2466	2337	2590	1818	1765	1902	648	570	704	2904	2689	3012	7.00	7.00	7.00
2	Region 5	2094	2066	2121	1614	1549	1679	480	442	517	2560	2518	2602	7.00	7.00	7.00
5	Region 10	2512	2190	2772	1942	1804	2065	570	294	770	2840	2433	3227	6.95	6.80	7.00
3	Region 11	2493	2266	2658	1932	1847	2005	561	419	714	2844	2542	2996	6.98	6.93	7.00
1	Region 14	2623	-	-	2054	-	-	569	-	-	2878	-	-	7.00	-	-
1	Region 15	2482	-	-	2029	-	-	453	-	-	2807	-	-	6.93	-	-
1	Region 17	2858	-	-	2069	-	-	789	-	-	3262	-	-	7.00	-	-
1	Region 19	2847	-	-	2023	-	-	824	-	-	3145	-	-	7.00	-	-
1	Region 20	2189	-	-	1741	-	-	448	-	-	2361	-	-	7.00	-	-
1	Region 23	2819	-	-	2170	-	-	649	-	-	3144	-	-	7.00	-	-
1	Region 27	2791	-	-	1881	-	-	910	-	-	3271	-	-	7.00	-	-
1	Region 28	2268	-	-	1894	-	-	374	-	-	2485	-	-	6.80	-	-
1	Region 29	1661	-	-	1385	-	-	276	-	-	1817	-	-	6.40	-	-
2	Region 30	2665	2639	2690	1960	1955	1965	705	674	735	2935	2934	2935	7.00	7.00	7.00
1	Region 34	2671	-	-	2082	-	-	589	-	-	3018	-	-	7.00	-	-
1	Region 35	2675	-	-	2226	-	-	449	-	-	3122	-	-	6.87	-	-
29	Ave. B1	2491			1900			590			2843			6.95		
	Min. B1	1661			1385			276			1817			6.40		
	Max. B1	2858			2226			910			3271			7.00		
GRADE: B2																
1	Region 2	2326	-	-	1694	-	-	632	-	-	2814	-	-	7.00	-	-
5	Region 3	2511	2414	2650	1836	1788	1968	674	615	733	2986	2781	3198	7.00	7.00	7.00
1	Region 4	2415	-	-	1787	-	-	628	-	-	2838	-	-	7.00	-	-
1	Region 5	2179	-	-	1731	-	-	448	-	-	2550	-	-	7.00	-	-
3	Region 6	1821	1367	2119	1544	1081	1835	277	261	286	2064	1531	2422	6.49	6.20	6.67

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Number of samples	Region	Peak viscosity, cP			Minimum viscosity (Trough), cP			Breakdown, cP			Final viscosity, cP			Peak time, min		
		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: B2																
4	Region 10	2562	2489	2660	1945	1863	1980	617	509	688	2911	2801	2983	7.00	7.00	7.00
1	Region 21	2544	-	-	2112	-	-	432	-	-	2850	-	-	6.87	-	-
1	Region 23	2184	-	-	1722	-	-	462	-	-	2442	-	-	7.00	-	-
2	Region 24	2449	2338	2560	1917	1870	1964	532	374	690	2855	2771	2939	6.90	6.80	7.00
1	Region 25	2295	-	-	1789	-	-	506	-	-	2641	-	-	7.00	-	-
1	Region 26	2846	-	-	2058	-	-	788	-	-	3250	-	-	7.00	-	-
1	Region 28	2902	-	-	2165	-	-	737	-	-	3347	-	-	7.00	-	-
1	Region 36	2981	-	-	2259	-	-	722	-	-	3233	-	-	7.00	-	-
23	Ave. B2	2428	1367	2981	1858	1081	2259	569	261	788	2802	1531	3347	6.92	6.20	7.00
	Min. B2															
	Max. B2															
GRADE: B3																
1	Region 2	2334	-	-	1770	-	-	564	-	-	2868	-	-	7.00	-	-
7	Region 3	2409	2117	2621	1803	1613	2006	606	504	699	2941	2654	3190	7.00	7.00	7.00
5	Region 4	2464	2427	2567	1849	1783	1904	615	549	663	2999	2933	3124	7.00	7.00	7.00
1	Region 6	2251	-	-	1909	-	-	342	-	-	2578	-	-	6.80	-	-
1	Region 10	2606	-	-	1950	-	-	656	-	-	3121	-	-	7.00	-	-
1	Region 25	2219	-	-	1912	-	-	307	-	-	2506	-	-	6.67	-	-
1	Region 26	2789	-	-	2148	-	-	641	-	-	3195	-	-	7.00	-	-
1	Region 27	2882	-	-	2155	-	-	727	-	-	3327	-	-	7.00	-	-
2	Region 28	2559	2166	2951	1968	1765	2171	591	401	780	3002	2619	3385	6.94	6.87	7.00
1	Region 34	2656	-	-	2133	-	-	523	-	-	3126	-	-	7.00	-	-
2	Region 35	2865	2739	2991	2183	2116	2250	682	623	741	3201	3061	3341	7.00	7.00	7.00
23	Ave. B3	2512	2117	2991	1919	1613	2250	592	307	780	2987	2506	3385	6.97	6.67	7.00
	Min. B3															
	Max. B3															

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		ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.	ave.	min.	max.
GRADE: B4																
3	Region 4	2492	2474	2526	1849	1766	1902	643	594	710	2966	2886	3044	7.00	7.00	7.00
2	Region 5	2182	2147	2216	1784	1656	1912	398	304	491	2563	2454	2671	6.90	6.80	7.00
2	Region 25	2584	2548	2619	2043	2039	2047	541	501	580	2900	2785	3015	6.94	6.87	7.00
7	Ave. B4	2429			1886			543			2832			6.95		
	Min. B4	2147			1656			304			2454			6.80		
	Max. B4	2619			2047			710			3044			7.00		
GRADE: COW																
1	Region 12	2446	-	-	1852	-	-	594	-	-	2785	-	-	7.00	-	-
1	Region 23	1624	-	-	1353	-	-	271	-	-	1784	-	-	6.47	-	-
2	Ave. COW	2035	1624	2446	1603	1353	1852	433	271	594	2285	1784	2785	6.74	6.47	7.00
	Min. COW	1624			1353			271			1784			6.47		
	Max. COW	2446			1852			594			2785			7.00		
GRADE: UT																
3	Region 2	2569	2435	2794	1811	1759	1878	758	640	916	3033	2925	3225	7.00	7.00	7.00
4	Region 3	2541	2479	2607	1952	1920	1992	590	517	682	3073	2980	3132	7.00	7.00	7.00
7	Region 6	1701	1156	2592	1345	819	1836	357	235	756	1927	1289	2958	6.38	5.80	7.00
1	Region 11	2740	-	-	2184	-	-	556	-	-	2973	-	-	6.93	-	-
1	Region 22	2363	-	-	1858	-	-	505	-	-	2596	-	-	7.00	-	-
1	Region 23	1122	-	-	776	-	-	346	-	-	1205	-	-	5.53	-	-
1	Region 25	1814	-	-	1635	-	-	179	-	-	2267	-	-	6.67	-	-
2	Region 28	2010	1675	2345	1623	1522	1724	387	153	621	2338	2015	2661	6.84	6.67	7.00
1	Region 33	2525	-	-	1806	-	-	719	-	-	2743	-	-	7.00	-	-
21	Ave. COW	2113	1122	2794	1626	776	2184	486	153	916	2445	1205	3225	6.69	5.53	7.00
	Min. COW	1122			776			153			1205			5.53		
	Max. COW	2794			2184			916			3225			7.00		
105	Ave. Wheat	2393	1122	2991	1834	776	2259	559	153	916	2775	1205	3385	6.89	5.53	7.00
	Min. Wheat	1122			776			153			1205			5.53		
	Max. Wheat	2991			2259			916			3385			7.00		