

**Attachment K3–5. Feedstock quality data for diluted bitumen ('dilbit') oils.**

Dilbits	WCS	AWB	BHB	CDB	CL	KDB	Average
Whole crude							
Density (kg/m <sup>3</sup> )	929	923	925	924	928	927	926
Sulfur wt. %	3.5%	3.9%	3.7%	3.9%	3.8%	3.9%	3.8%
Distillation vol. fraction							
Naphtha IBP–190C	0.197	0.279	0.276	0.274	0.230	0.246	0.250
Distillate 190–343C	0.174	0.113	0.107	0.123	0.152	0.122	0.132
Gas oil 343–527C	0.263	0.237	0.247	0.246	0.226	0.242	0.244
Resid 527+ °C	0.366	0.371	0.369	0.356	0.392	0.390	0.374
Cuts density (kg/m <sup>3</sup> )							
Naphtha IBP–190C	690	688	681	687	688	672	684
Distillate 190–343C	880	882	892	880	883	892	885
Gas oil 343–527C	955	964	976	964	958	966	964
Resid 527+ °C	1,055	1,062	1,061	1,059	1,052	1,039	1,055
Cuts sulfur (wt. %)							
Naphtha IBP–190C	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	ND	<0.1%
Distillate 190–343C	1.3%	1.4%	1.5%	1.3%	1.6%	1.5%	1.4%
Gas oil 343–527C	2.9%	3.5%	3.6%	3.3%	3.3%	3.5%	3.4%
Resid 527+ °C	5.6%	6.5%	6.5%	6.2%	6.3%	6.0%	6.2%

**Notes:** Data shown were reported publicly by the Canadian oil industry ([www.crudemonitor.ca](http://www.crudemonitor.ca); downloaded Dec 2014) for these crude streams, which are commercially available to US refiners. Dilbits, shown in the table by their acronyms, are: Western Canadian Select (WCS), Access Western Blend (AWB), Borealis Heavy Blend (BHB), Christina Dilbit Blend (CDB), Cold Lake (CL), and Kearl Lake (KDB). Data for distillation cuts are averages of the two most recent assays for each stream reported, where available; data for whole crude are averages for the most recent five-year period reported.