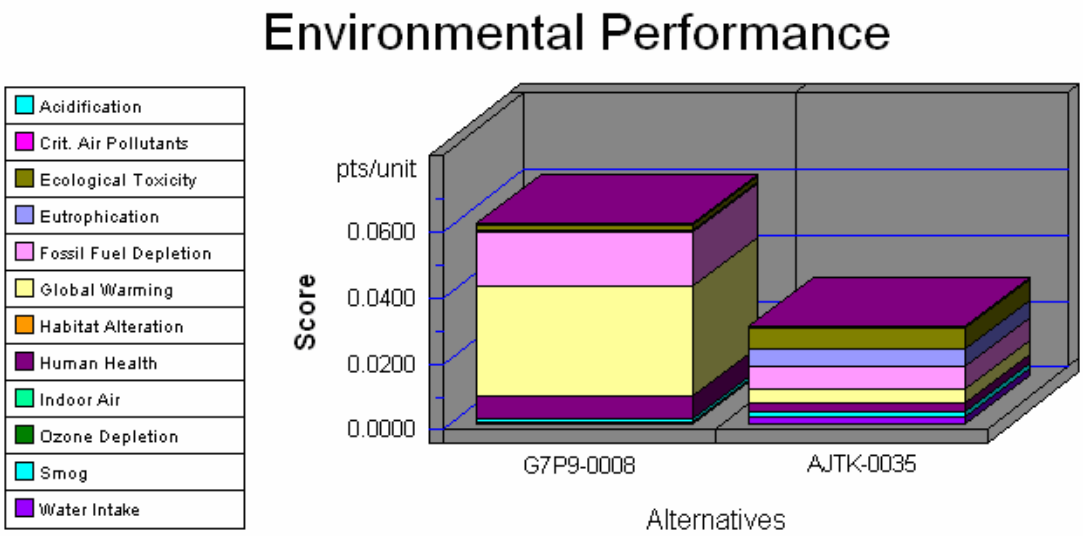
**Cutting, Tapping, and Drilling Oils - BEES Analysis Results**

Functional Unit: 1 gallon of tapping oil

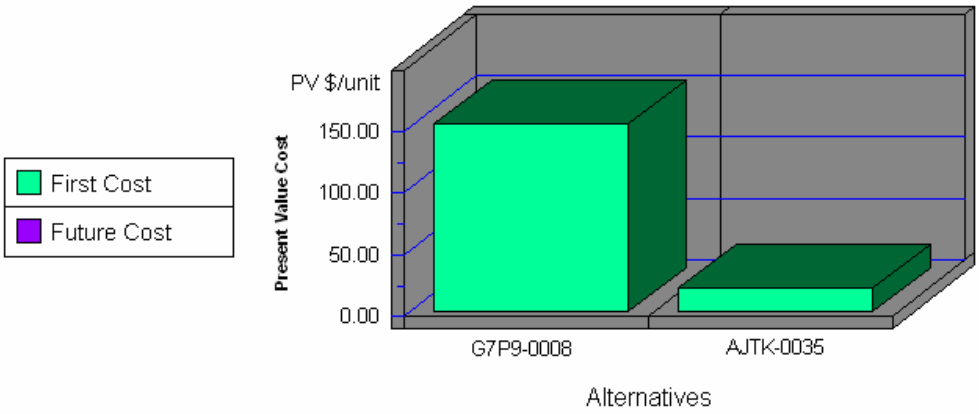



**Note: Lower values are better**

| Category | G7P9-0008 | AJTK-0035 |
|---|---|---|
| Acidification--5% | 0.0000 | 0.0000 |
| Crit. Air Pollutants--6% | 0.0002 | 0.0002 |
| Ecolog. Toxicity--11% | 0.0018 | 0.0067 |
| Eutrophication--5% | 0.0003 | 0.0051 |
| Fossil Fuel Depl.--5% | 0.0163 | 0.0070 |
| Global Warming--16% | 0.0334 | 0.0038 |
| Habitat Alteration--16% | 0.0000 | 0.0000 |
| Human Health--11% | 0.0068 | 0.0027 |
| Indoor Air--11% | 0.0000 | 0.0000 |
| Ozone Depletion--5% | 0.0000 | 0.0000 |
| Smog--6% | 0.0012 | 0.0017 |
| Water Intake--3% | 0.0007 | 0.0024 |
| **Sum** | 0.0607 | 0.0296 |

**Appendix B (continued)**

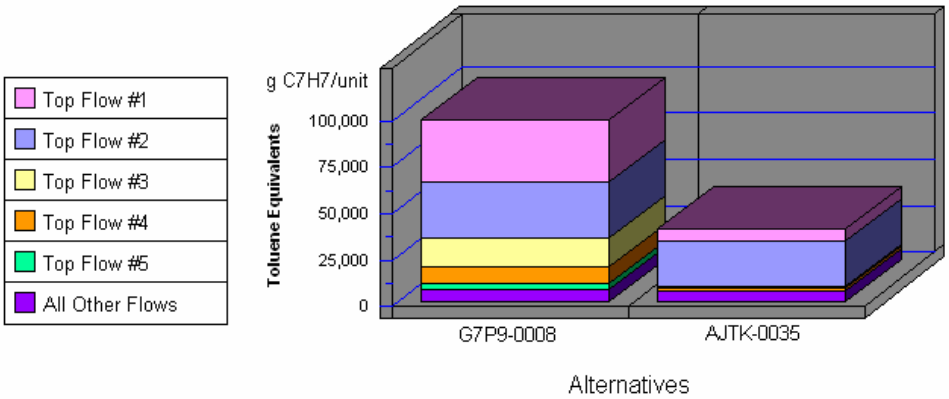
## Economic Performance




| Category | G7P9-0008 | AJTK-0035 |
|---|---|---|
| First Cost | 152.15 | 20.00 |
| Future Cost-- 3.9% | 0.00 | 0.00 |
| **Sum** | 152.15 | 20.00 |

*No significant/quantifiable durability differences were identified among competing alternatives. Therefore, future costs were not calculated.

## Human Health by Sorted Flows*




**Note: Lower values are better**

| Category | G7P9-0008 | AJTK-0035 |
|---|---|---|
| Cancer--(w) Arsenic (As3+, As5+ | 33,732.47 | 6,591.60 |
| Cancer--(w) Phenol (C6H5OH) | 29,746.78 | 23,893.64 |
| Cancer--(a) Dioxins (unspecifie | 16,159.50 | 1,481.93 |
| Cancer--(a) Arsenic (As) | 8,323.90 | 1,482.91 |
| Cancer--(a) Ethylene Oxide (C2H | 3,650.43 | 0.00 |
| All Others | 6,777.23 | 5,913.53 |
| **Sum** | 98,390.32 | 39,363.61 |

*Sorted by five topmost flows for worst-scoring product