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Canadian factories lead Chrysler's quality audit

BY DAVID CLIMENHAGA
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The four Canadian vehicle assembly plants of Chrysler Corp. are ranked in the top five spots in a quality audit conducted by the auto maker of its 14 North American assembly factories.

The three that produced the best workmanship in the company's car-assembly operations during the 1988 model year are all in Canada, according to the 1988 annual report of Windsor-based Chrysler Canada Ltd. published this week.

The Bramalea, Ont., factory where Chrysler builds its Eagle Premier sedan and is about to start production of a Dodge version of the same car earned the top spot in the audit.

The audit is conducted daily in all Chrysler plants on cars chosen at random as they roll off the production line.

The No. 2 and No. 3 spots went to the nearby Brampton factory, which builds Jeep YJ utility vehicles (Jeep Wranglers in the United States), and the main Windsor plant, which builds Chrysler's short-wheelbase minivan.

The No. 4 position was captured by the St. Louis van plant, where the long-wheelbase minivan is made, and the No. 5 spot by Windsor's Pillette Road full-size van plant.

Chrysler's ranking confirms what industry observers have long suspected – Canadian autoworkers do better quality work than their U.S. counterparts.

Industry scuttlebutt is that quality audits by General Motors Corp. and Ford Motor Co. also give their Canadian operations high marks for quality.

But auto makers traditionally have been reluctant to reveal the results of their audits because of what they also show: which plants are at the bottom.

The booby prize in Chrysler's audit went to the long-troubled Jefferson Avenue plant in Detroit, which accumulated 22.1 demerit points, compared with Bramalea's 13.1.

In 1988, Chrysler built Plymouth Reliant and Dodge Aries K cars in the 65-year-old plant, as well as the E body cars, which include the Chrysler 600, New Yorker and Plymouth Caravelle.

This year, Chrysler has moved production of its Dodge Omni-Plymouth Horizon subcompacts from the Kenosha, Wis., plant it closed last December to Jefferson. It plans to build its new Jeep ZJ truck in a new plant being built on the site.

"These results are a clear indication of why no Canadian plant is particularly vulnerable (to closing because of overcapacity)," said Toronto industry analyst Dennis DesRosiers. "Chrysler has some of its best management in Canada, excellent labour relations, modern equipment and an excellent government environment to operate in."

Typically, plants that have had a recent history of good labour relations tended to do better.

However, U.S. auto industry analyst William Pochiluk cautioned, "it's extremely difficult to make inter-plant comparisons because they don't all have identical processes."

Such factors as the level of technology, the personalities of the inspectors, and the number and complexity of the sub-assemblies made elsewhere and used in the cars, can all have an effect, he said.

For example, the top-ranked Bramalea plant, acquired in 1987 in Chryslers takeover of American Motors Corp., is not only almost brand new, but had unused capacity of about 180,000 vehicles last year.

Chrysler Canada's report says the quality auditing teams do four checks:

- Customer acceptance: factors readily apparent and a cause of immediate disatisfaction, such as fit and finish, rattles and squeaks, and door and window controls that are hard to operate.
- The water test. In a word: leaks.
- Specification audit: measuring body parts and sub-assemblies to make sure they fit.
- Driveability: making sure the engine starts properly, and steering, brakes, lights and so on work.

Chrysler Canada says its scoring is based on a set number of demerit points assigned to each type of defect. "Demerits vary in degree of severity from slight flaws to defects which would require dealer repair."

"Items covered by the customer acceptance audit are accorded the largest number of demerits," the report says. "The lower the average score, the better the plant's performance."

Compared with Bramalea's 13.1 demerits, Bramptom had 14.8, Windsor's main plant had 15.2, St. Louis 16.8 and Windsor's Pillette Road 17.

"We've always had a good strong reputation here for quality," said Chrysler Canada spokesman Walter McCall. "I don't think its ever been this high, though."

The other Chrysler plants on the list, with demerit points in brackets, and the vehicles they produced in 1988 were as follows:

- Kenosha Plant No. 2, (18.6), closed last December, and which made the Omni-Horizon subcompact twins.
- Sterling Heights, Mich., (18.8), Dodge Shadow-Plymouth Sundance and Dodge Lancer-Chrysler LeBaron GTS.
- Kenosha Plant No. 1, (19.1), also closed in December, Chrysler Fifth Avenue.
- St. Louis car, (20), Dodge Daytona and Chrysler LeBaron coupe and convertible.
- Newark, Del., (20.6), Aries-Reliant-cars, Chrysler LeBaron, Dodge Spirit and Plymouth Acclaim.
- Belvedere, Ill., (20.6), Dodge Dynasty, Chrysler New Yorker.
- Toledo, Ohio, (20.6), Jeep Cherokee, Wagoneer, Grand Wagoneer and Comanche.
- Dodge City in Warren, Mich., (21.6), Dodge Dakota and Dodge full-size pickups.

Despite their apparently better quality work, unionized Canadian auto workers tend to cost less than their U.S. counterparts, in significant part because a greater portion of the

Chrysler's Canadian plants top others in quality

Ranking of plants by number of demerit points (lowest is best)

Bramalea, Ont.	13.1
Brampton, Ont.	14.8
Windsor minivan, Ont.	15.2
St. Louis van, Missouri	16.8
Pillette van, Windsor, Ont.	17.0
Kenosha 2, Wisconsin	18.6
Sterling Heights, Michigan	18.8
Kenosha 1, Wisconsin	19.1
St. Louis ca, Missouri	20.0
Newark, Delaware	20.6
Belvedere, Illinois	20.6
Toledo, Ohio	20.6
Warren, Michigan	21.6
Jefferson Avenue, Detroit	22.1

(*continued overleaf*)

cost of many social benefits such as medical care is borne by the state in Canada.

According to the most recent U.S. Bureau of Labour Statistics information, a typical Canadian auto worker's wages and benefits cost about $14.50 (U.S.) an hour in 1987, compared with $20.39 in the United States.

The article EM8903 reprinted overleaf and above is used in Figure 11.5b of the STAT 221 Course Materials and in Statistical Highlight #26.

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