

# Study of Factors for brand positioning of automotive lubricant for four wheeler segment customers

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## ABSTRACT

*This research paper focuses on the need of brand positioning for PSUs lubricant in Indian market. This study represents an approach of factor analysis to determine the effect of brand positioning of lubricant on consumer perception. An empirical study has been conducted in Delhi region to find out the perceptions of consumers towards the PSUs lubricants. Survey has been conducted with the help of structured questionnaire to determine the different attributes responsible for brand positioning lubricant oil. Factor analysis has been done to reduce the number of factors and identifying only the important factors for brand positioning of automotive lubricant of PSUs for four wheeler segments. Further, reliability test has been conducted to test the reliability of the important factors.*

**Key words:** PSUs, Perception, Reliability, Brand Positioning.

## INTRODUCTION

The demand of lubricant in India is third largest in the world after USA and China. In the decade of 1990s the Indian lubricant market was dominated by PSUs (IOCL, BPCL and HPCL). India produce around 8 to 10 percent of the total global lubricant production. The demand of lubricant in India is around 9.6% of the total global lubricant demand. The Indian lubricant market changed after 1992 when liberalization took place. After liberalization too many private lubricant manufacturers enter into the Indian market. Later on Indian government dismantled the administered pricing mechanism and free pricing policy allowed in the Indian lubricant market. The deregulation policy of Indian government encouraged so many foreign lubricant manufacturers expand their business in India. Entry of multinational companies imposed too much competition between PSUs and Private players which benefitted the end consumers. Lubricant oil is very essential for automobile sector. Indian Oil SERVO continues to be the dominant player in the Indian lubricant sector backed by cutting edge product development, high quality customization and extensive blending and distribution network. Mak lubricant of Bharat Petroleum offers a full range of Automotive Engine Oils, Gear Oils, Transmission oils, Specialty Oils and Greases. HP Lubes is an integral part of Hindustan Petroleum Corporation Limited, one of India's frontline oil majors, committed to providing energy and fueling growth in every significant area of development.

Before the liberalization of the Indian economy, the public sector oil companies dominated the Indian lubricant industry with a market share of 90 per cent. The lubricants produced were simple blends based on low and medium

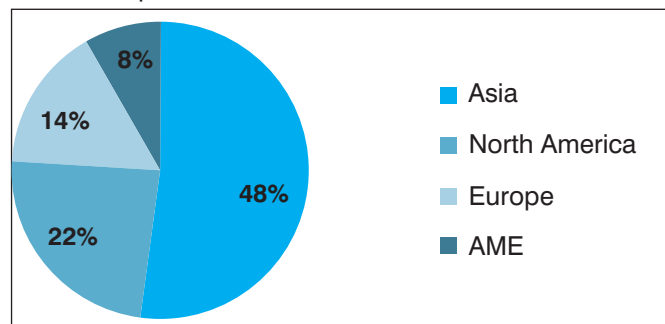
level technologies. More sophisticated lubricants were imported and these accounted for a relatively small market share.

There are total 1380 lubricant manufacturer world wide. Earlier the percentage share of lubricant was very less for oil companies. But now a day's lubricant business play a crucial role for oil companies to increase their profits. Out of 1380 around 180 oil companies are manufacturing lubricants. There are 1200 lubricant companies where core business are is only manufacturing lubricants. These independent lubricants manufacturer generally purchase the raw materials from the open market. The lubricant manufacturer spent a very small amount of money on their research and development.

There are some important facts of the future of lubricants market.

### Types of Lubricant

Lubricants are mainly classified into two parts: Automotive lubricants and Industrial lubricants. Industrial lubricants are further classified into two parts first is Industrial specialties and second one is industrial oils.



Source: Lubricant and Their Market (Theo Mang)

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Presented and Expected Consumption of Lubricant  
2004 - 2020 in Kb)

Year	Consumption (in KB)
2004	265
2005	267
2006	272
2007	281
2008	264
2009	250
2010	270
2011	273
2015	282
2020	284

## LITERATURE REVIEW

A comprehensive literature review has been conducted to determine the different variables for brand positioning of automotive lubricant.

According to Philip Kotler brand positioning is defined as the act of designing the company's offer so that it occupies a distinct and valued place in the mind of the target customers.

According to David Aaker brand positioning is defined as the part of brand identity and proposition of value that is communicated to the target customers.

Bovee et al defined brand positioning as the 'Process of creating a mental impressed in the mind of the consumers in comparison to the competitors.

The brand positioning can be mainly determine to answer the following four questions:

- 1 Why (What extra benefits consumers will get in the new brand)
- 2 When (Determine the correct opportunity time for the new brand).
- 3 For whom (Identify the target customers).
- 4 Against whom (Identifying the competitors in the market).

A literature review has been done to identified that whether brand positioning is consumer perspective or a marketer perspective (Kalafatis and Blankson 2004). From the company perspective point of view brand positioning is the process of identifying the target consumers and create a positive perception of the brand in the mind of the consumers. The company desire is to create an association in the mind of the consumers. From consumers perspective point of view brand positioning is a process that how consumers perceive to a particular brand. The brand positioning is a complex combination of feelings, thoughts, Impressions and beliefs that consumers map in their mind (Harley, Kerin and Ellson 2004). According to Aaker, Myers and Batra (1992) perceived positioning is a set of associations that a consumer feels about the brand. The associations may

be represents by physical attributes of the product, occasional use of the product, user image etc. A brand positioning a concept of relativity in consumers mind that target consumers assess that how a particular brand is similar or different from the other competitors. Imagine that every consumer have a mental map of the different category of the products. The location of a particular brand in the mental map of the consumers relative to the competitors represents the position of that particular brand and the position of all the other brands in the mental map of the consumers represents the associations of the brand to the consumers. The perceived positioning is dependent on the perception of each and individual target consumers because consumers interpret same information in a different way. The association of consumers to a brand can also be effected by some external factors are media, promotional activity, competitors, word of mouth etc. Brand positioning is based on the perceptions of the consumers.

Relationship between Intended Brand Positioning, Actual Brand Positioning and Perceived Brand Positioning

## RESEARCH OBJECTIVE

To determine the important factors for brand positioning of automotive lubricant oil in India for four wheeler segment consumers.

## RESEARCH METHODOLOGY

### Research Design

The research is exploratory cum descriptive in nature. The method of research used is that of quantitative analysis through results obtained from questionnaires.

### Sources of Data collection

#### Primary data:

Primary data of Four wheeler segment consumers has been divided into the following strata

- i) Non commercial four wheeler (petrol)
- ii) Non commercial four wheeler (diesel)
- iii) commercial four wheeler (petrol)
- iv) commercial four wheeler (diesel)

The above strata has been further classified using following demographic variables:

- i) Income
- ii) Age
- iii) Gender

### Sampling

Sample size = 400

### Area of Sampling

The sample has been collected from the Delhi region. Sample size has been divided into the ratio of commercial and non commercial four wheeler vehicles which are registered in Delhi. Four wheelers are further classified on the basis of the ratio of petrol and diesel four wheeler vehicles.

### DATA ANALYSIS AND FINDING

Following variables of brand positioning of automotive lubricant has been identify by pilot survey:

Packaging, Advertising, Purchasing, Availability, Superiority, Promotion, Credibility, Innovativeness, Reliability, Reputation, Commitment, Quality, Experience, Extra Benefits, Longitivity

### Factor Analysis

Factor analysis has been used to determine the important factors:

The Kaiser Meyer Olkin's measuring of sampling adequacy and Bartlett's Test of Sphericity.

#### KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.702
Approx. Chi-Square		2090.789
Bartlett's Test of Sphericity	df	120
	Sig.	.000

The value of Kaiser Meyer Olkin is greater than 0.5 i.e. ( 0.702 ) so it is acceptable.

The significance level of Barlett's Test is .000. It means that R- matrix is not an identical matrix and there are some relationships between different variables.

### Factor Extraction

#### Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	3.015	18.845	18.845	3.015	18.845	18.845	2.971	18.571	18.571
2	2.618	16.363	35.208	2.618	16.363	35.208	2.408	15.048	33.619
3	1.956	12.226	47.434	1.956	12.226	47.434	2.110	13.186	46.804
4	1.604	10.024	57.458	1.604	10.024	57.458	1.655	10.346	57.151
5	1.177	7.358	64.816	1.177	7.358	64.816	1.226	7.665	64.816
6	.947	5.920	70.736						
7	.885	5.530	76.266						
8	.730	4.561	80.828						
9	.611	3.817	84.645						
10	.504	3.152	87.797						
11	.472	2.949	90.745						
12	.436	2.722	93.467						
13	.346	2.163	95.630						
14	.259	1.620	97.250						
15	.234	1.460	98.710						
16	.206	1.290	100.000						

Extraction Method: Principal Component Analysis.

The above table gives the list of Eigen values associated with each linear component (factor) before extraction, after extraction and after rotation. SPSS has identified 16 linear components within the data set. The Eigen values associated with each factor represent the variance explained by that particular linear component and SPSS also displays the Eigen values in terms of the percentage of variance explained so as to factor explained (so, factor 1 explains 18.845 % of total variance). It should be clear that the first few factors explain relatively large amount of variance whereas subsequent factors explain only small amount of variance. SPSS then extracts all factors with Eigen value greater than 1, which leaves us with 5 factors. The Eigen values associated with these factors are again displayed in the columns labeled extraction sum squared loadings. The values in this part of the table are the same as the value before extraction, except that the values for the discarded factors are ignored. In the final part of the table, the Eigen values of the factors after rotation are displayed. Rotation has the effect of optimizing the factor structure and one consequence for these data is that the relative importance of the five factors is equalized.

## Component Matrix

Component Matrix<sup>a</sup>

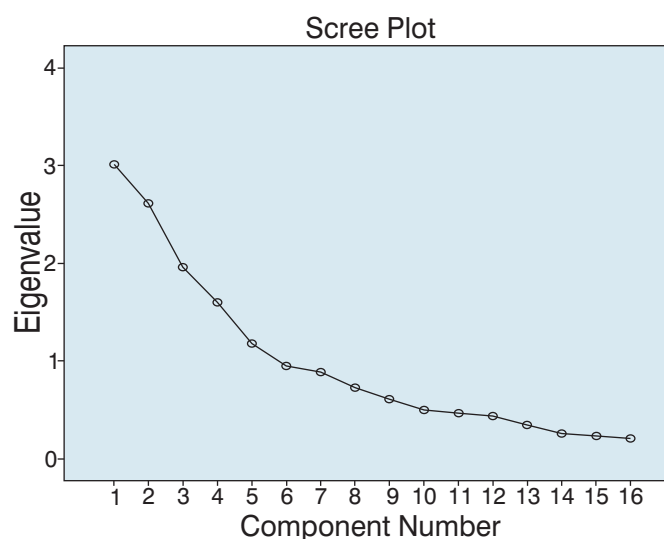
	Component				
	1	2	3	4	5
Price	.154	.062	.164	.762	.115
Packaging	.157	.504	.616	-.289	-.010
Advertising	-.022	.472	.599	-.175	.025
Purchasing	.088	-.122	.442	.531	.073
Availability	.035	.209	.297	.650	.081
Superiority	.278	.687	-.478	.060	-.108
Promotion	.078	.506	.574	-.258	-.023
Credibility	.798	-.186	.035	-.076	.182
Innovativeness	.814	-.362	.040	-.115	-.018
Reliability	.225	.718	-.430	.178	-.108
Reputation	.797	-.149	-.033	.063	-.185
Commitment	.880	-.114	.045	-.044	.081
Quality	.324	.690	-.202	-.042	-.113
Experience	-.065	.383	-.195	.127	.537
Extra Benefits	.073	-.054	.093	-.216	.623
Longevity	.006	.094	-.266	-.115	.603

Extraction Method: Principal Component Analysis.

a. 5 components extracted.

This matrix contains the loadings of each variable onto each factor. By default SPSS displays all loadings; however we requested that all the loadings less than 0.5 be suppressed in the output. At this stage SPSS has extracted seven factors. Factor analysis is an exploratory tool and so it should be used to guide the researcher to make various decisions.

## Scree Plot



The scree plot shows the point of inflexion on the curve. The curve begins to tail off after five factors. Therefore it is justifying retaining five factors.

The different factors after factor analysis are as follows:

Factors	Variables	Correlation Coefficient	Factor Name	Cronbach a
Factor 1	Credibility	0.798	Product Trustworthiness	0.874
	Reputation	0.797		
	Innovativeness	0.814		
	Commitment	0.880		
Factor 2	Quality	0.690	Product Quality	0.830
	Superiority	0.687		
	Reliability	0.718		
Factor 3	Advertising	0.599	Marketing Strategy	0.760
	Packaging	0.616		
	Promotion	0.574		
Factor 4	Price	0.762	Accessibility	0.673
	Availability	0.650		
	Purchasing Location	0.531		
Factor 5	Experience	0.537	Extra Advantages	0.638
	Extra Benefits	0.623		
	Longitivity	0.603		

Researcher consider only those factors whose Cron Bach Alpha is greater than 0.60. The Cron Bach Alpha of Factor Extra Advantages is 0.238 so researcher do not consider this factor.

## CONCLUSION

In this research, there are four factors identified by researchers. First factor is product trustworthiness which is a combination of variables credibility, reputation, innovativeness and commitment. Second factor is product quality which is a combination of variables quality, superiority and reliability. Third factor is marketing strategy which is a combination of variables advertising, packaging and promotion. Fourth factor is accessibility which is a combination of variables price, availability and purchasing.

All these factors have been found to be key for brand positioning of automotive lubricant for four wheeler segment customers.

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