

The Influence Of Product Quality, Service Quality, Price, And Place On Oil Fuel Purchase Decisions In Pertashop Lumajang District

Rysang Kusumawardhana Ravana
Putra
Bumdesa Bodang Lumajang

Suwignyo Widagdo
Institute Technology and Science
Mandala
suwignyo@stie-mandala.ac.id

Muhaimin Dimiyati
Institute Technology and Science
Mandala
dimiyati@stie-mandala.ac.id

Abstract

Public Fuel Filling Stations (SPBU) in the collaboration system with Pertamina are very important. Of course, Pertamina must work well with gas stations, which are public places or infrastructure where the general public can meet their fuel needs. This form of cooperation doesn't end there, many small gas stations are standing in various cities to remote villages, starting from pertamini, pertashop, nitro and the like, by selling similar fuel oil to cover areas difficult to reach by large gas stations in cities. As was done by village-owned enterprises (Bumdes) in Bodang Village, Padang Lumajang District, they collaborated with establishing Pertashop type Pertamina ron 92. This study aims to analyze the effect of product quality, service quality, price and place on the decision to purchase fuel oil at Pertashop. Bodang Village, Padang Lumajang District. This study uses a quantitative method *by looking for causal associative relationships* . The data were obtained from a population of consumers purchasing personal fuel oil with a sample of 100 respondents. The data that has been collected is then analyzed using multiple linear regression analysis using the SPSS application. While the sampling technique uses *non-probability sampling with accidental sampling* . In conclusion, the results obtained are that product quality, service quality, price and location have a positive effect on the decision to purchase fuel oil at the Pertashop in Bodang Village.

Keywords: product quality, service quality, price, place, purchase decision

INTRODUCTION

Product Quality (X1) According to Mowen (2012:61), product quality is an overall evaluation process to customers for improving the performance of a product. According to Tjiptono (2015: 315) explains that the dimensions of product quality include 8 dimensions consisting of: Performance results , Additional Traits or Features , Reliability , Conformance to Specifications, Durability , Serviceability , Aesthetics , Perceived Quality .

Quality of Service (X2) According to Kasmir (2017: 47) Quality of Service Quality is defined as the actions or deeds of a person or organization aiming to provide satisfaction to customers or employees. According to Barata (2004: 11) there are 4 dimensions in the public service process, namely: Service Provider , Service Recipient , Type of Service, Customer Satisfaction .

Price (X3) According to Tjiptono (2014: 320), Pricing is the company's selection of the general price level that applies to certain products, relative to the prices of competitors. According to Kotler and Armstrong (2016: 78), there are four indicators that characterize prices, namely: Affordability of prices, price compatibility with product quality, price compatibility with benefits, prices according to ability or price competitiveness.

Place (X4) According to Fandy Tjiptono (2014: 92) Location is where the company operates or where the company carries out activities to produce goods and services that are concerned with the economic aspect. Location selection must consider various aspects which are of course directed to encourage sales and provide benefits for the company. In this study, the location aspect will use the concept of site selection according to Tjiptono (2014: 159), that there are several indicators that can be measured to determine the location, namely as follows: Access , Spacious parking area, comfortable and safe, Traffic , Visibility.

Decision (Y) According to Kotler (2009: 240), the purchasing decision process is a consumer decision regarding preferences for brands in a collection of choices. In consumer purchasing decisions, there are six indicators of decisions made by buyers, according to Kotler and Keller (2016: 199): Product choice, Brand choice , Distribution point choice , Purchase amount or quantity , Purchase time , Payment method .

METHOD

Type of *research* is quantitative research by looking for causal *associative relationships* . Sugiyono (2008:36) stated " that research *is associative* is research that asks the relationship between two or more variables.

The population is a combination of all elements in the form of events or people who have similar characteristics which are the center of attention of a researcher because they are seen as a study (Ferdinand, 2006) . In this study, the population is private vehicle buyers (users) at Pertashop, Bodang Village, Lumajang Regency.

sample took 100 responses from private vehicle buyers (users) due to their location in the countryside. The sampling method used is based on the development carried out by Roscoe (Ferdinand, 2006) . This development in multivariate research is in the form of multiple regression, so the number of samples is between 10 and 20. If the number of variables is 5, then the number of sample members is $20 \times 5 = 100$. So the number of samples used in this study is 100 respondents/buyers. Technique used in this research refers to Ghozali (2018) in Sulistyan and Ermawati (2020) in the form of *non-probability* sampling with the *accidental sampling type*. suitable as a data source.

The data collection method uses primary data which is research data obtained directly from original sources (not through intermediary media) obtained by distributing questionnaires. Secondary data is research data obtained by researchers indirectly through intermediary media (obtained and recorded by other parties). The questionnaire is a data collection technique that is carried out by giving a set of written statements or questions to the respondent to answer (Sugiyono, 2008: 142). Literature study is carried out by conducting literature reviews, exploring, and reviewing various literature such as reading books, journals, and other sources related to research.

The data analysis method uses data instrument tests which include validity and reliability tests. The classic assumption test includes the data normality test, multicollinearity test, and heterosdastisity test. Multiple linear analysis and hypothesis testing.

RESULTS

Data analysis

Validity test

Table 1 validity test results

Variable	Correlation range	sig	Ket.
Product quality	0.828**	0.000	Valid
Quality of service	0.922**	0.000	Valid
Price	0.899**	0.000	Valid
Place	0.864**	0.000	Valid
Buying decision	0.815**	0.000	Valid

Source: Processed primary data, 2023

From the data above, it is known that the questions regarding all variables are declared valid.

Reliability test

Table 2 reliability test results

Variable	Cronbach's alpha		Alpha limit	Ket.
Product quality	0.922	>	0.07	Reliable
Quality of service	0.923	>	0.07	Reliable
Price	0.899	>	0.07	Reliable
Place	0.875	>	0.07	Reliable
Buying decision	0.844	>	0.07	Reliable

Source: Processed primary data, 2023

From the reliability test data above, it is known that the Cronbach alpha value of each variable has a value greater than the Cronbach alpha upper limit value of 0.7. So it can be seen that the measuring instrument used in this study can be said to be reliable/reliable.

Classic assumption test

Normality test

Table 3 normality test results

	Unstandardized residuals
N	100
Means	.00000000
std. deviation	1.6854348
Absolute	.066
Positive	.066

Negative	-0.056
Kolmogorov-Smirnov Z	,689
asympt. Sig. (2-tailed)	0.729

Source: Processed primary data, 2023

Based on the table above, the Kolmogorov-Smirnov value is 0.729. The significance value is greater than 0.05, so it can be concluded that the data is normally distributed.

Multicollinearity test

Table 4 multicollinearity test results

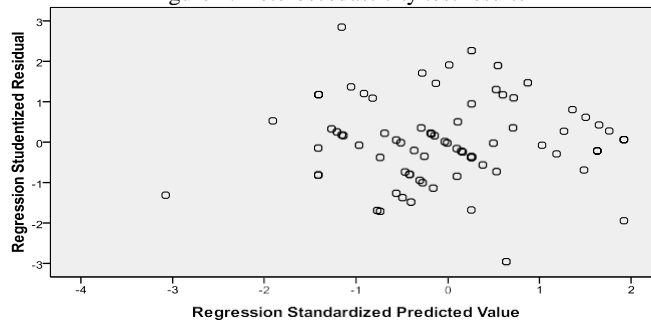
Variable	Collinearity Statistics	
	tolerance	VIF
(Constant)		
Product quality	0.683	1,464
Quality of service	0.365	2,741
Price	0.682	1,467
Place	0.387	2,581
Buying decision	0.565	1,487

Source: Processed primary data, 2023

From the reliability test data above, it is known that the VIF value of the product quality variable is 1.464, the service quality variable is 2.741, the price variable is 1.467, the place variable is 2.581 and the purchase decision variable is 1.487 where the VIF value for each variable is < 10 and the tolerance value is > 0.1 it can be concluded that there is no multicollinearity between the independent variables.

Heteroscedasticity test

Figure 1. Heteroscedasticity test results



Source: Processed primary data, 2023

scatterplot image above, it can be seen that the points are spread evenly random, both above and below zero on the Y axis and does not form a special pattern certain. Thus it can be concluded that the research data is homoscedasticity or noheteroscedasticity occurs in the regression model, therefore the regression model in this studyworth wearingto predictvariabledecisionpurchasebased on variablesindependentwhich coverqualityproduct, service quality, price andplace.

Multiple Regression Analysis

Based on calculations using the SPSS 17 tool, the regression between the price, product quality, and location variables on the purchasing decision variable is as follows:

Table 2
Summary Calculation Regression
 Table 5 results of regression calculations

Model	Unstandardized Coefficients		standardized Coefficients
	B	std. Error	Betas
(Constant)	3,189	1.147	
Qualityproduct	.322	.115	.323
Qualityservice	.332	.116	.322
Price	.223	.096	.242
Place	.291	.089	.329

Source: Processed primary data, 2023

Based on the table above, the regression equation formed in this multiple regression analysis is:

$$Y = 0.323 X_1 + 0.322 X_2 + 0.242 X_3 + 0.329 X_4$$

Description: Y = Purchase Decision
 X1 = product quality
 X2 = Quality of service
 X3 = price
 X4 = place

Based on the multiple regression equation above, it can be seen that:

- The regression coefficient of the product quality variable (X1) obtained a value of 0.323 with a positive coefficient sign. This means that the price variable (X1) has an influence of 32.3% on purchasing decisions. The effect of the product quality variable is the smallest influence among the other variables so that it can be concluded that product quality has a positive effect on purchasing decisions.
- The regression coefficient of the service quality variable (X2) is 0.322 with a positive coefficient sign. This means that the product quality variable (X2) has an influence of 32.2% on purchasing decisions. The effect of product quality is a larger influence than the effect of the price variable, but smaller than the effect of the service quality variable so that it can be concluded that service quality has a positive effect on purchasing decisions.
- The price variable regression coefficient (X3) obtained a value of 0.242 with a positive coefficient sign. This means that the location variable (X3) has an influence of 24.2% on the purchasing decision variable. The influence of the price variable is the biggest influence among other variables. So it can be concluded that the price has a positive effect on purchasing decisions.
- The regression coefficient of the place variable (X4) obtained a value of 0.329 with a positive coefficient sign. This means that the location variable (X4) has an influence of 32.9% on the purchasing decision variable. The influence of the place variable is the biggest influence among the other variables. So it can be concluded that the place has a positive effect on purchasing decisions.

Hypothesis

t-test

Table 5 t test results

VariableFree	tcount	Significance
QualityProduct	2,786	0.007
QualityService	2,686	0.003
Price	2,318	0.023
Place	3,258	0.002

Source: Processed primary data, 2023

Results analysis test is as follows:

- Markt count on variable quality product (X₁) is as big 2,786 with level significance 0.007. Because 2.786 > 1.6641 and 0.007 < 0.05, this indicates that hypothesis 2 (H₁) accepted.
Conclusion: variable quality product influential positive. And significant to decision purchase.
- Markt count on service quality variable (X₂) is of 3.258 with level significance 0.002. Because 3.258 > 1.6641 and 0.003 < 0.05, this indicates that hypothesis 3 (H₂) is accepted.
Conclusion: the service variable has a positive and significant effect to decision purchase.
- Calculated t value for the price variable (X₃) is 2.318 with a significance level of 0.023. Because 2.318 > 1.6641 and 0.023 < 0.05, this indicates that hypothesis 1 (H₃) accepted.
Conclusion: variable price influential positive And significant to decision purchase.
- Markt count on place variable (X₄) is of 3.258 with level significance 0.002. Because 3.258 > 1.6641 and 0.002 < 0.05, this indicates that hypothesis 3 (H₄) is accepted.
Conclusion: the place variable has a positive and significant effect to decision purchase.

Test f

Test-F used for test there is no influence variable independent to variable dependent in a manner simultaneous (together). Criteria Which used is:

If probability > 0.05 and if F count < F table then H_0 is accepted. If probability < 0.05 and if F count > F table then H_0 is rejected.

Table 5 test results f
ANOVA^b

Model	sum of Squares	Df	Means Square	F	Sig.
1 Regression	318,369	3	106,123	44,454	.000 ^a
Residual	181,431	76	2,387		
Total	499,800	79			

a. Predictors: (Constant), location, price, quality product

b. Dependent Variable: purchase decision

Source: Processed primary data, 2023

Based on the results of the ANOVA or F test in table 4.15, the F_{count} is 44,454 with a significance level of 0.000. Because the significance level is $0.000 < 0.05$ then the regression model can be used to predict purchasing decisions (Y) or it is said that the variable X_1 , X_2 , X_3 and X_4 , together have a significant effect on variable Y. That matter means that the purchasing decision model can be explained by variables, product quality, service quality, price, and place, in other words the research model is said to be feasible.

Coefficient of Determination (R²)

In essence, the coefficient of determination (R^2) measures how far the model's ability to explain the variation of the dependent variable. The value of the coefficient of determination is between zero and one (Ghozali, 2006). Mark coefficient determination can be seen on table 5.

Table 6 Results of the Coefficient of Determination

Model		Summary ^b		
Model	R	R Square	Adjusted R Square	std. Error of the Estimates
1	.798 ^a	.637	.623	1,545

a. Predictors: (Constant), location, price, quality product

b. Dependent Variable: purchase decision

Source: Processed primary data, 2023

Based on table 5, it can be seen that the *adjusted R square* is 0.623. This means 62.3% variable dependent decision purchase (Y) can be explained by variables independent that is variable quality product, service quality, price and location. Whereas the rest ($100\% - 62,3\% = 37,7\%$) explained by other variables outside the model which is not described in the study.

DISCUSSION

This study only focuses on the variables of product quality, service quality, price and place as factors that influence purchasing decisions so that it is only able to explain 62.3%. The addition of new variables needs to be done in future research so that it can produce an image wider about the research problem.

CONCLUSION

Based on the results of the research above, it can be suggested as follows, the place variable, should expand the parking area. variable quality product can be emphasized. For maintain the quality of the products sold. Price variables can be emphasized by giving discounts to buyers or giving a gift to regular buyers. In the quality variable, of course, to maintain its services and or improve services by self-evaluating.

REFERENCE

- Agus Widarjono. Ph. D. (2015). Applied Statistics First Edition. Yogyakarta: UPP STIM YKPN.
- Asman, Nasir. 2020. Business Feasibility Study, (Guidelines for Starting a Business in the Industrial Revolution Era 4.0). West Java: CV Adanu Abimata.
- Augusty, Ferdinand. 2006. Management Research Methods: Research Guidelines for thesis, Thesis and Accompanied by Management Science. Semarang: Diponegoro University.
- Barata, Atep Adya. 2004. Fundamentals of Excellent Service. Jakarta: PT Elex Media Komputindo.

- Fandi, Tjiptono. 2014. Service, Quality & Satisfaction. Edition 3. Yogyakarta: Publisher Andi.
- Firdiansyah, D., & Prawoto, E. (2021). Analysis of the Influence of Service Quality, Price, Location, and Product Variation on Purchasing Decision Making. *Journal of Economic, Business and Engineering (JEBE)* , 2 (2), 314-320. Retrieved 15 February 2023.
- Firmansyah, I. (2019). The influence of product quality, service quality, price and brand image on purchasing decisions for Kober Mie Setan in Malang City. *MBR (Management and Business Review)* , 3 (2), 116-123. Retrieved 15 February 2023.
- Indriantoro, Nur and Bambang Supomo, 2009, Business Research Methodology for Accounting and Management, Yogyakarta: BPF.
- Kodu, S. (2013). Price, product quality and service quality influence the decision to purchase a Toyota Avanza car. *EMBA Journal: Journal of Economics, Management, Business and Accounting Research* , 1 (3). Retrieved 15 February 2023.
- Kotler, Amstrong. 2016. Principles of Marketing Sixteenth Edition Global Edition. England. Pearson Education Limited.
- Kotler, Philip, and Kevin Lane Keller. 2016. Marketing Management. Edition 13 J. Jakarta: Erlangga.
- Maryati, M. (2022). *The Influence of Product Quality, Service Quality and Promotion on Time Universe Studio Online Shop Purchase Decisions* (Doctoral dissertation, Management Study Program). Retrieved 15 February 2023.
- Mowen, John C and Minor, Michael. (2012). Consumer Behavior translated by Dwi Kartika Yahya. Jakarta: Erlangga.
- Polla, FC, Mananeke, L., & Taroreh, RN (2018). Analysis Of The Influence Of Price, Promotion, Location And Service Quality On Purchase Decisions In Pt. *Indomaret Manado Unit Jalan Sea* , 6 (4). Retrieved 15 February 2023.
- Sugiyono. 2008. Qualitative Quantitative Research Methods and R&D. Bandung : ALPHABETA.
- Tjiptono, Fandy. 2011. Services Marketing. Pert Edition. Malang: Bayu Media Publishing.