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Used bioquenchants derived from epoxidized soyabean oil for evaluation of metal quenching performance

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Abstract

The authors have worked on used bioquenchants derived from epoxidized soyabean oil for evaluation of metal quenching performance. Though vegetable seed oil quenchants were popular in the beginning of 19th century, they became unpopular with the introduction of petroleum based quenchants. However since the petroleum based oils are fast depleting, the above vegetable seed oil quenchants have regained their popularity. Soyabean oil is one of the most highly produced vegetable seed oil in india. The objective of the study of the authors to discussed the results showing the potential use of soyabean oil quenchants and their metal quenching and heat transfer performance.