KAWASAKI STEEL TECHNICAL REPORT

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"Developed Machinery Maintenance Technology
in Steelmaking Plant"

Maintenance-Free Technology for Hydraulic Equipment

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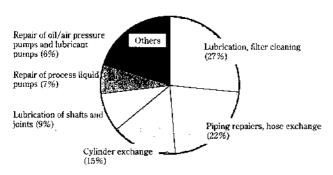
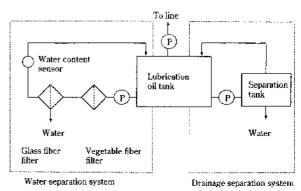
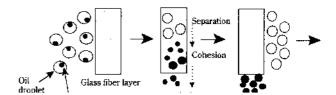
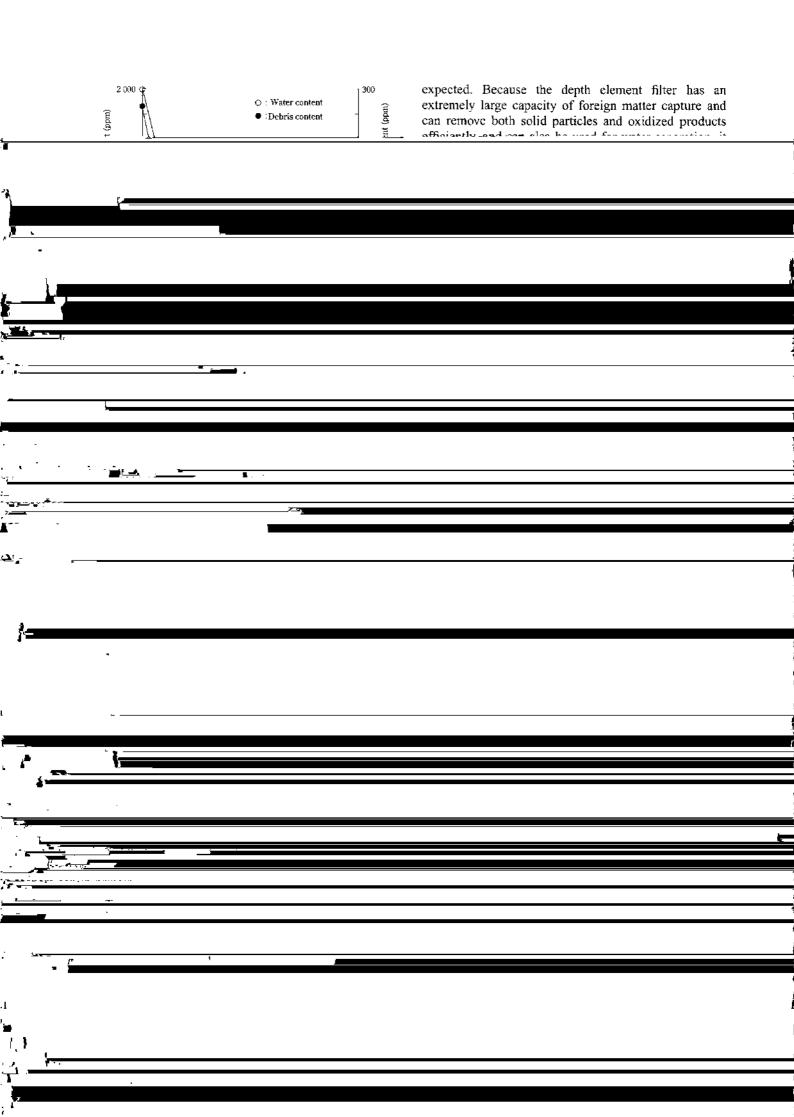


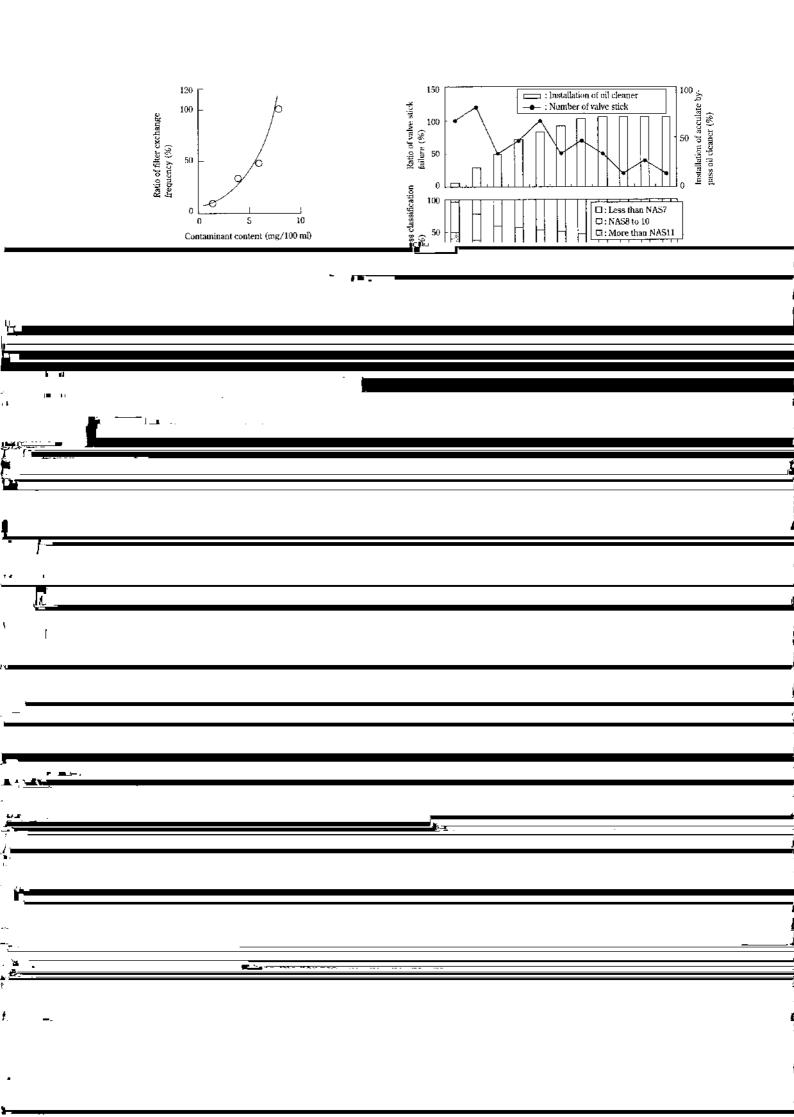
Fig. ! Profile of works related to hydraulic equipment



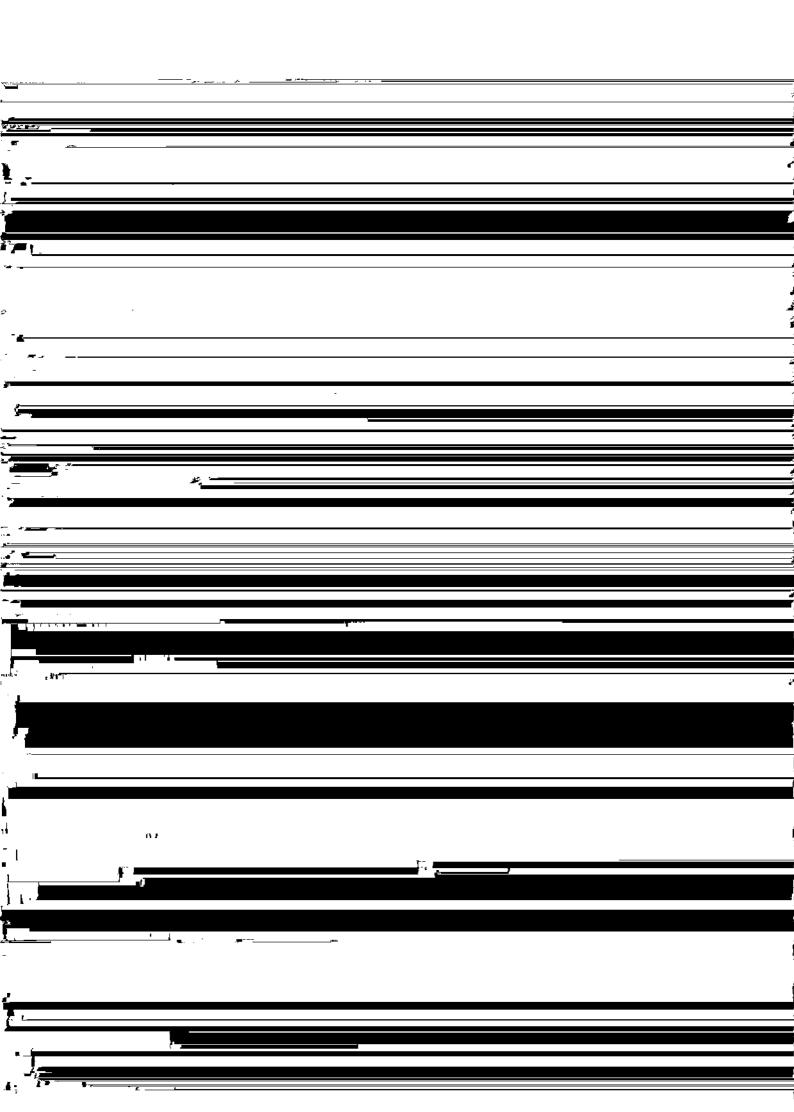
related to hydraulic equipment in cold rolling mills. To realize maintenance-free for hydraulic equipment, it is necessary to extend the cycle of filter exchanges, extend the lives of cylinders and pumps, and extend the lubricating cycle of shafts and joints. It should be noted that the breakdown of work related to hydraulic equipment in the iron- and steelmaking plants is virtually the same as











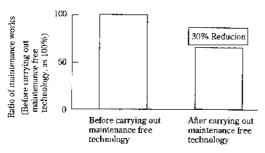


Fig. 20 Transition of ratio of maintenance works at hydraulic equipment

ment of materials and equipment will be necessary in order to achieve even longer equipment life. In any case, however, joint efforts by the makers and users of machinery, hydraulic equipment and fluids, bearings, seals, lubricants, and other components and materials will be required.

References

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