

Results of linear guides incorporated in welding machine

Comparison of linear guides with NSK K1™ and linear guides without NSK K1™.



Example of how lubrication unit NSK K1™ performed after 3 years of operation.

Sample Linear Guide model number: LH300200EL1-PCZZ

Sample 1 :

No NSK K1 installed
Double seal+Protector
Cold Cr fluoride plating
AV2 grease
Cap for rail mounting hole

Sample 2 and 3 :

NSK K1 installed
Single seal+Protector
Cold Cr fluoride plating
AV2 grease
Cap for rail mounting hole

Operating conditions

Operated on the same welding machine at the same place in automotive production line.

sample 1: 10.5 months operation

sample 2: 13 months operation (Install sample 2 as a replacement of sample 1.)

sample 3: 36 months operation

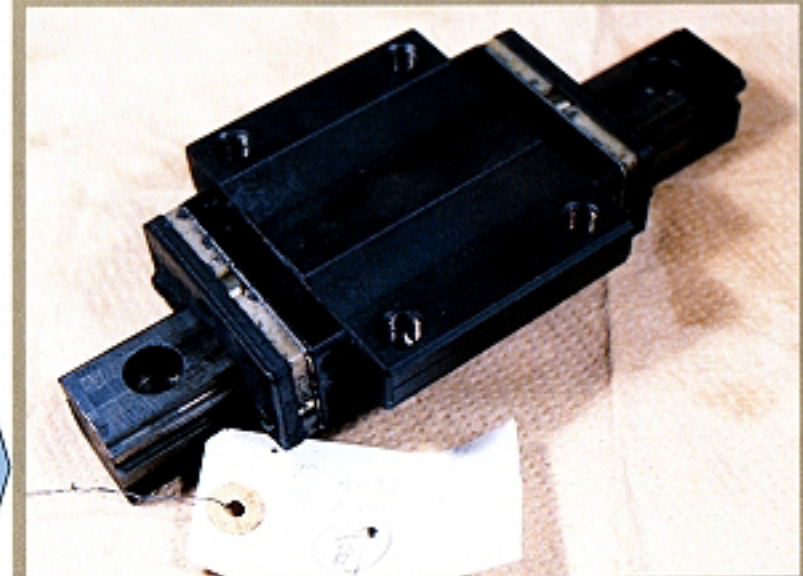
Operating conditions

Sample 1: Rail and ball slide raceways and balls showed rust and extensive deterioration.

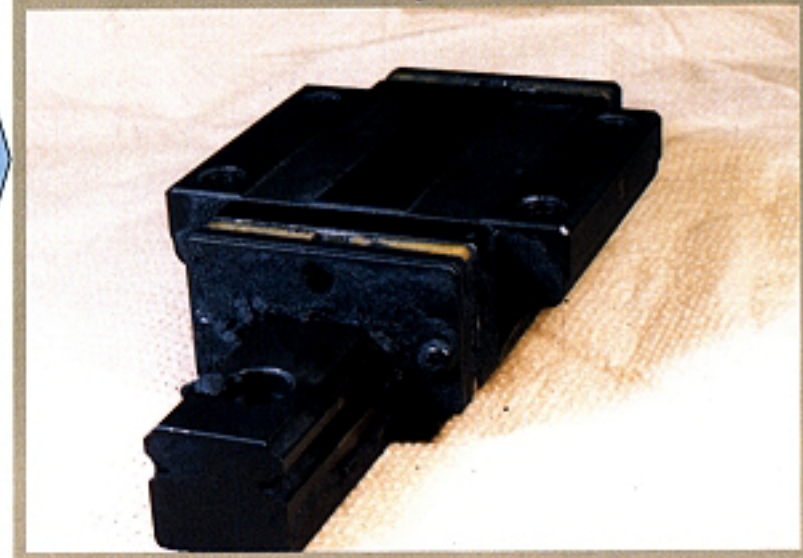
Sample 2: Much less deterioration on rail and ball slide raceways compared with sample 1.
No rust found on the balls.

Sample 3: Same conditions as sample 2.

sample 2



sample 3



Comparison after running (1)

Balls

sample 1: without NSK K1



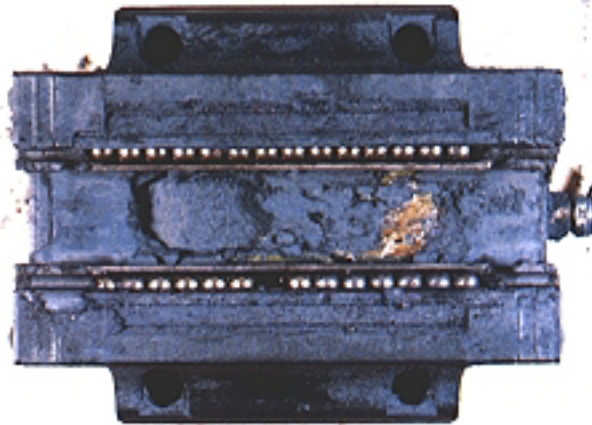
sample 2: with NSK K1



sample 3: with NSK K1



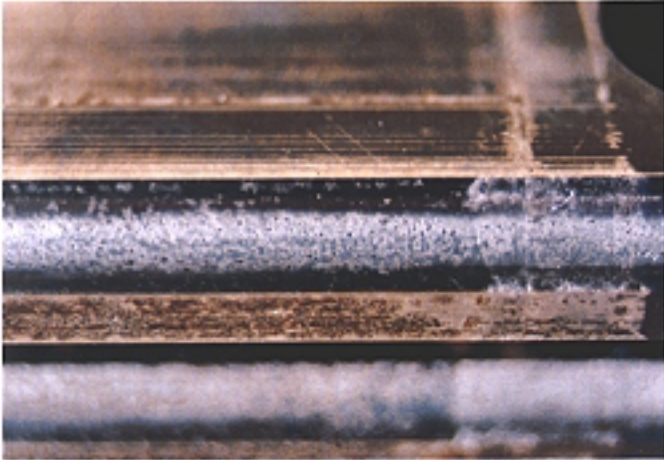
Ball slide



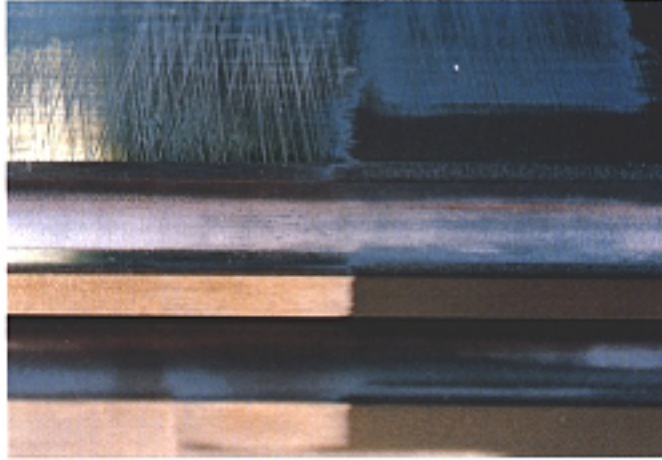
Comparison after running (2)

Rail raceway

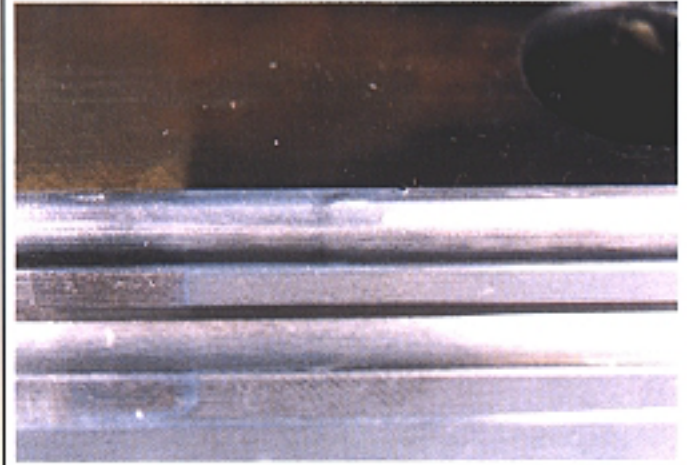
sample 1: without NSK K1



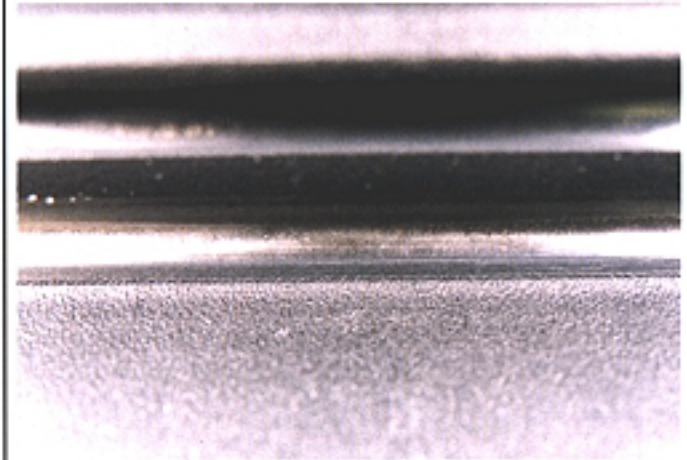
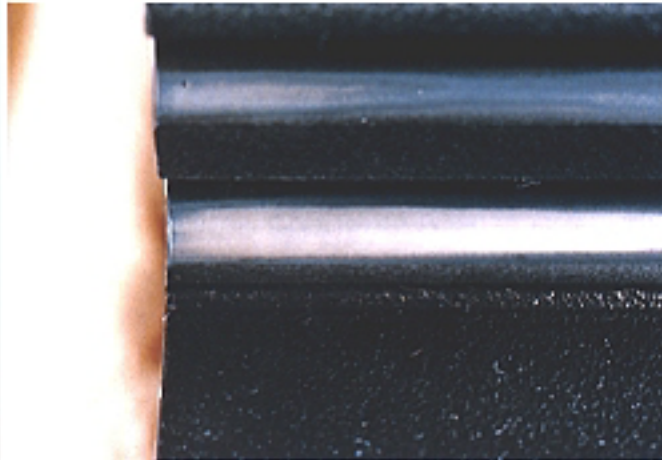
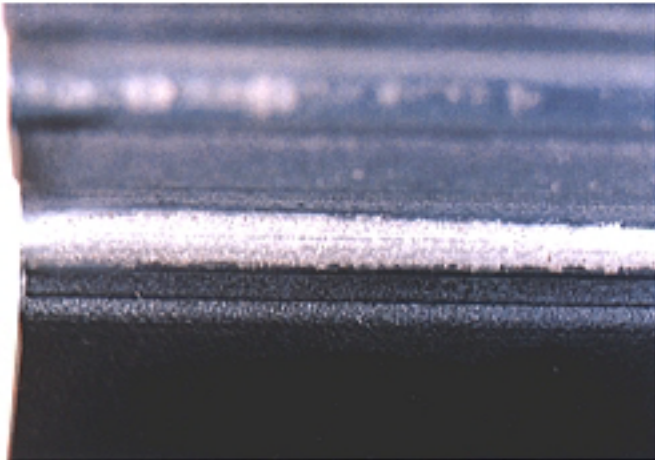
sample 2: with NSK K1



sample 3: with NSK K1



Ball slide raceway



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