GEARBOX MODEL IN TURBINE

MALLOY

Acciona 1500 1.5MW
- Moventas PLH 1100.2 IT

Acciona 3000
- Moventas PLH 2900

Acciona AW82
- Winergy 4407

Gamesa G8x
- Moventas 1400
- Hanses EH 803
- Gamesa GE2000

Gamesa G9x
- Moventas 1400

Gamesa G114
- Gamesa GE2000
- Gamesa GE2100

GE 1.5
- Winergy 4390.4
- Winergy 4411
- Winergy 4419
- Winergy 4431
- Moventas PLH 1100
- Bosch RexRoth GPV 451
- Bosch RexRoth GPV 453
- Bosch RexRoth GPV 455
- Bosch RexRoth GPV 457
- Nanjing FDMD
- Nanjing FDMX
- Nanjing FDM
- GETS 7GA87Cx
- GETS 7GA87Ex
- GETS 7GA89Ax

GE 2.x
- Winergy 3505
- Hansen/ZF EH811
- Nanjing FDM2

Mitsubishi M1000
- Mitsubishi M1000A

Mitsubishi 2.4 MW
- Mitsubishi 2.4 MW

NegMicon NM 48/750
- Winergy 4300
- Hansen EH 601

NegMicon NM 52/900
- Winergy 4320

Nordex N90
- Bosch RexRoth GPV 510

Nordex N117
- Bosch RexRoth GPV 535

Senvio MM92
- Winergy 4481

Siemens 2.3
- Winergy 4456
- Winergy 4458
- Hansen EH 851

Suzlon S64
- Winergy 4375.3

Suzlon S88
- Winergy 4456
- Hansen EH 853

Vestas V47
- Moventas PLH 308
- Moventas PLH 310
- Moventas PLH 312
- Hansen Eh 552

Vestas V80
- Moventas 1400
- Hansen EH 802
- Hansen EH 804
- Bosch RexRoth GPV 441
- Bosch RexRoth GPV 442

Vestas V82
- Winergy 4390.5
- Winergy 4420
- Hansen EH 803
- Bosch RexRoth GPV 442

Vestas V90
- Hansen EH 804

Vestas V100
- Winergy 4435
- Winergy 4440
- ZF Atlas
- Bosch RexRoth GPV 442

Vestas V110
- Winergy 4440
- ZF Atlas

www.MalloyWind.com

CONTACT

605.336.3693
wind@malloyelectric.com

VISIT OUR WEBSITE

NSK Tough Steel Bearings

Features:

- 5x Life in Contaminated Lubrication
- 4x Life Against WEC
- 23% Increase in Load Rating

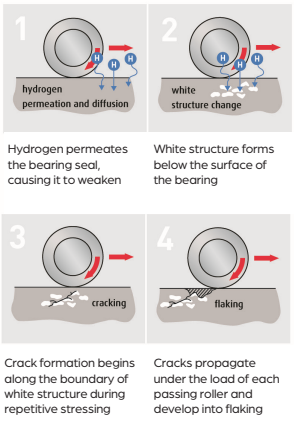
NSK





Location:
Gearbox – HSIMS, HSS

Solution:
Anti-White Structure TF (AWS-TF) Long-life Steel.

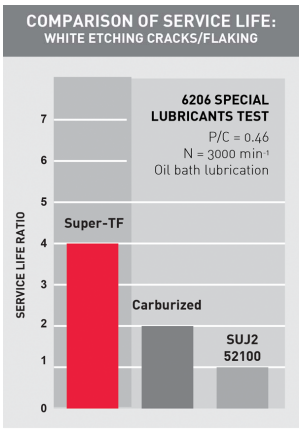


Hydrogen permeates the bearing seal, causing it to weaken

White structure forms below the surface of the bearing

Crack formation begins along the boundary of white structure during repetitive stressing

Cracks propagate under the load of each passing roller and develop into flaking



S-TF delivers 4 times the life of standard steel (SUJ2)

NSK's Tough Steel family of materials was developed to address the most difficult applications in various industries.

Each material has a unique combination of specially formulated base material and advanced heat treatment to deliver the special characteristics needed.

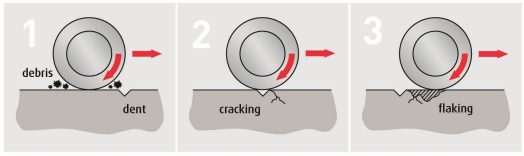
Both Super Tough and Anti-White Structure have been successful in Wind applications depending on the application and problems found.

Malloy has the largest inventory of Tough Steel bearings for Wind applications. Please contact us for these replacement bearings or if you want to learn more about the science behind these bearings.



Location:
Gearbox – All Bearing Positions Main Shaft

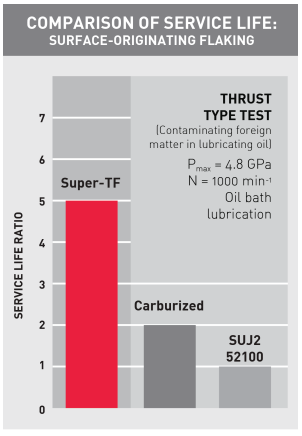
Solution:
Super –TF (STF) Long-life Steel



Foreign debris contamination leads to the formation of dents

Stress concentration around debris dents develop into cracks

Cracks propagate under the load of each passing roller and develop into flaking



STF delivers 5 times the life of standard steel (SUJ2)

MALLOY

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