

# Environmental Data by Operations Base ①

This page includes the environmental data for 2 locations, Kokubu and Kariya, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period] April 2013 to March 2014**

## Kokubu Plant

No. of Employees 2,110



### Production items

- All types of ball bearings
- Roller bearings
- Ultra-large bearings
- Hub units
- High-accuracy bearings

## Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.2~8.8	7.6	7.1
BOD	480	250	52
SS	480	18	6.7
Oil content	4	3.2	1.4

Unit : mg/l (Excluding pH)

## Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (Annealing furnace)	Dust	0.08	0.003
	NOx	144	42
	SOx	—	—
Boiler (Hot and cold water generator)	Dust	0.08	0
	NOx	120	42
	SOx	—	—

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

## Noise / Vibration data

Index	Regulation value	Results	
		Maximum	Average
Noise	Morning	59	58
	Afternoon	64	61
	Evening	59	57
	Night	54	54
Vibration	Daytime	63	50
	Nighttime	58	47

Unit : dB

## Overall environmental data

INPUT		Classification	Volume
		Energy consumption (GJ)	1,163,688
		Water consumed (m <sup>3</sup> )	488,781
		Chemical substances handled (kg)	6,243
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	46,099
		NOx (kg)	1,693
		SOx (kg)	0
		Chemical substances released (kg)	1,090
	Sewage	Wastewater (m <sup>3</sup> )	202,332
		COD (kg)	5,205
		Nitrogen (kg)	0
		Phosphorus (kg)	0
	Materials discarded	Chemical substances transferred (kg)	62
		Recycled for profit (t)	5,530
Recycled at a charge (t)		1,892	
Waste (incineration+landfill) (t)		0	
		Chemical substances transferred (kg)	1,575

\* Due to sewage disposal, there are no regulation values for COD, nitrogen, or phosphorus

## Foul odor

Measurement item	Regulation value	Measurement
Ammonia	0.8	0.47
Methanethiol	0.0016	0.0005
Trimethylamine	0.0040	0.0001

\* Malodorous substances (22 substances) were measured.

\* All items not listed were below minimum determination limit.

## Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released			Amount transferred Sewage ; Waste	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere ;	Waterways ;	Soil				
1	Water-soluble zinc compounds	2,323	0	0	0	232	0	0	2,090
80	Xylene	2,615	2,615	0	0	0	0	0	0
412	Manganese and its compounds	1,367	27	0	0	492	0	0	848

Unit : kg/year

## Kariya Plant

No. of Employees 1,251



### Production items

- Machine tools
- Damper pulleys
- Machined parts

## Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	7.0	6.6
COD	19	3.9	2.8
BOD	20	6.4	3.7
SS	20	2.5	1.5
Oil content	4	0.4	0.2
Zinc	1.6	0.1	0.04

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Soluble iron	4	0.5	0.5
Soluble manganese	1.6	0.3	0.2
Fluorine	4	0.4	0.1
Nitrogen	16.1	11.0	8.1
Phosphorus	1.5	0.04	0.03
Boron	8	0.03	0.02

## Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (for cafeteria use)	Dust	0.08	0.004
	NOx	104	68
	SOx	1.2	—
Boiler (Hot and cold water generator)	Dust	0.08	0.003
	NOx	104	52
	SOx	1.2	—

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

## Noise / Vibration data

Index	Regulation value	Results	
		Maximum	Average
Noise	Morning	64	54
	Afternoon	69	62
	Evening	64	59
	Night	59	57
Vibration	Daytime	68	48
	Nighttime	63	32

Unit : dB

## Foul odor

Measurement item	Regulation value	Measurement
Odor index	12	Less than 10

## Overall environmental data

INPUT		Classification	Volume
		Energy consumption (GJ)	195,521
		Water consumed (m <sup>3</sup> )	138,800
		Chemical substances handled (kg)	3,409
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	7,518
		NOx (kg)	613
		SOx (kg)	0
		Chemical substances released (kg)	2,867
	Waterways	Wastewater (m <sup>3</sup> )	184,242
		COD (kg)	668
		Nitrogen (kg)	1,013
		Phosphorus (kg)	6
	Materials discarded	Chemical substances transferred (kg)	0
		Recycled for profit (t)	509
Recycled at a charge (t)		256	
Waste (incineration+landfill) (t)		0	
		Chemical substances transferred (kg)	0

## Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released			Amount transferred Sewage ; Waste	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere ;	Waterways ;	Soil				
300	Toluene	2,418	1,942	0	0	0	0	0	476

Unit : kg/year

# Environmental Data by Operations Base ②

This page includes the environmental data for 2 locations, Tokushima and Okazaki, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2013 to March 2014

## Tokushima Plant

No. of Employees 1,342

### Production items

- Ball bearings
- Water pump bearings
- Cylindrical roller bearings
- Special environment bearings
- Double row angular contact ball bearings
- Hub units
- Tensioner pulleys



### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.2	7.6	6.8
COD	16	9.3	7.2
SS	24	8.3	3.4
Oil content	2.4	2.0	1.5
Nitrogen	25	6.9	5.0
Phosphorus	2.5	0.06	0.05

Unit : mg/ℓ (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (Absorption type cold and hot water generator)	Dust	0.24	0.01
	NOx	144	51
	SOx	16.8	0.03
Diesel engine	Dust	0.08	0.0312
	NOx	902.5	763
	SOx	16.8	0.139

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

### Noise / Vibration data

Index	Regulation value	Maximum	Average
			Unit : dB
Noise	Morning	59	54
	Afternoon	64	57
	Evening	59	51
	Night	55	49
Vibration	Daytime	63	56
	Nighttime	58	55

### Foul odor

- Malodorous substances (22 substances) were measured.
- All items were below minimum determination limit.

### Overall environmental data

INPUT		Classification	Volume
INPUT	Energy consumption	(GJ)	985,762
	Water consumed	(m <sup>3</sup> )	1,002,288
	Chemical substances handled	(kg)	9,861
	<b>OUTPUT</b>		
Atmosphere	Greenhouse gases	(t-CO <sub>2</sub> )	38,171
	NOx	(kg)	42,611
	SOx	(kg)	2,681
	Chemical substances released	(kg)	3,404
Waterways	Wastewater	(m <sup>3</sup> )	228,845
	COD	(kg)	4,927
	Nitrogen	(kg)	4,756
	Phosphorus	(kg)	14
	Chemical substances transferred	(kg)	0
Materials discarded	Recycled for profit	(t)	7,570
	Recycled at a charge	(t)	1,437
	Waste (incineration+landfill)	(t)	0
	Chemical substances transferred	(kg)	0

### Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released				Amount transferred	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil	Sewage				
80	Xylene	3,365	3,365	0	0	0	0	0	0	0
438	Methylnaphthalene	6,445	0	0	0	0	0	0	0	6,445

## Okazaki Plant

No. of Employees 806

### Production items

- 4WD coupling
- Linear solenoid valves for AT and CVT
- Oil pumps for AT and CVT
- Propeller shafts
- Cast parts



### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	6.6~8.4	8.1	7.6
COD	16	3.7	2.6
BOD	16	6.2	1.7
SS	16	1.3	1.0
Oil content	1.6	0.9	0.5
Zinc	2.4	0.05	0.05

Index	Regulation value	Results	
		Maximum	Average
Soluble iron	4	0.5	0.5
Soluble manganese	2.4	0.3	0.3
Fluorine	0.8	0.10	0.10
Nitrogen	12	6.7	5.8
Phosphorus	1.6	0.06	0.04
Boron	8	0.03	0.02

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Electric furnace	Dust	0.12	0.002
	NOx	80	10
	SOx	6.072	—
Boiler (for air conditioning)	Dust	0.08	0.002
	NOx	104	83.2
	SOx	—	—
Heating furnace	Dust	0.12	0.002
	NOx	80	10
	SOx	6.072	—
Gas engine (cogeneration)	Dust	0.04	0.002
	NOx	160	128
	SOx	6.072	—

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Index	Regulation value	Maximum	Average
			Unit : dB
Noise	Morning	64	61
	Afternoon	69	66
	Evening	64	60
	Night	59	54
Vibration	Daytime	69	38
	Nighttime	64	40

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	12	Less than 10

### Overall environmental data

INPUT		Classification	Volume
INPUT	Energy consumption	(GJ)	645,476
	Water consumed	(m <sup>3</sup> )	108,114
	Chemical substances handled	(kg)	4,292
	<b>OUTPUT</b>		
Atmosphere	Greenhouse gases	(t-CO <sub>2</sub> )	26,270
	NOx	(kg)	26,741
	SOx	(kg)	0
	Chemical substances released	(kg)	2,730
Waterways	Wastewater	(m <sup>3</sup> )	56,645
	COD	(kg)	150
	Nitrogen	(kg)	348
	Phosphorus	(kg)	1.1
	Chemical substances transferred	(kg)	0
Materials discarded	Recycled for profit	(t)	8,194
	Recycled at a charge	(t)	2,607
	Waste (incineration+landfill)	(t)	0
	Chemical substances transferred	(kg)	0

### Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released				Amount transferred	Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil	Sewage				
300	Toluene	2,479	1,991	—	—	—	—	—	—	488

# Environmental Data by Operations Base ③

This page includes the environmental data for 2 locations, Tokyo and Kagawa, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period] April 2013 to March 2014**

## Tokyo Plant

No. of Employees 558



### Production items

- Needle roller bearings
- Constant velocity joints
- Drive shafts
- Propeller shafts

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.6	7.8	7.5
BOD	240	34	6
SS	200	25	10
Oil content	24	5.0	1.3
Nitrogen	96	20	8.9
Phosphorus	13	0.6	0.3

Unit : mg/l (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Gas suction type boiler	Dust	0.08	0.002
	NOx	44	40
	SOx	0.33	0.01

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

### Noise / Vibration data

Index	Regulation value	Maximum	Average	Unit : dB
			Average	
Noise	Morning	59	59	57
	Afternoon	69	65	59
	Evening	59	58	57
	Night	54	54	53
Vibration	Daytime	58	57	38
	Nighttime	48	32	21

### Foul odor

- Malodorous substances (22 substances) were measured.
- All items were below minimum determination limit.

### Overall environmental data

INPUT		Classification	Volume
		Energy consumption (GJ)	358,562
		Water consumed (m <sup>3</sup> )	120,099
		Chemical substances handled (kg)	9,937
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	13,554
		NOx (kg)	1
		SOx (kg)	2
		Chemical substances released (kg)	6,646
	Sewage	Wastewater (m <sup>3</sup> )	82,586
		BOD (kg)	516
		Nitrogen (kg)	742
		Phosphorus (kg)	24
		Chemical substances transferred (kg)	67
	Materials discarded	Recycled for profit (t)	1,625
		Recycled at a charge (t)	787
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (kg)	1,472

\* Due to sewage disposal, there are no regulation values for COD

### Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released			Amount transferred Sewage : Waste	Amount recycled	Amount Removed and treated	Amount consumed	Unit : kg/year
			Atmosphere	Waterways	Soil					
1	Water-soluble zinc compounds	1,324	0	0	0	132	0	0	1,192	
80	Xylene	1,696	1,696	0	0	0	0	0	0	
300	Toluene	4,872	4,872	0	0	0	0	0	0	

## Kagawa Plant

No. of Employees 907



### Production items

- Tapered roller bearings

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	7.1	6.6
COD	40	33	24
BOD	40	37	34
SS	40	6.0	2.3

Unit : mg/l (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler	Dust	0.24	0.01
	NOx	208	66
	SOx	4	1.3
Private power generator	Dust	0.08	0.03
	NOx	902.5	800
	SOx	4	0.63

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

\* Less than regulatory amounts (950)

### Noise / Vibration data

Index	Regulation value	Maximum	Average	Unit : dB
			Average	
Noise	Morning	64	61	56
	Afternoon	64	60	55
	Evening	64	61	57
	Night	59	57	54
Vibration	Daytime	49	28	27
	Nighttime	46	28	26

### Foul odor

Measurement item	Regulation value	Measurement	Unit : ppm
Ammonia	1.2	0.32	

### Overall environmental data

INPUT		Classification	Volume
		Energy consumption (GJ)	979,779
		Water consumed (m <sup>3</sup> )	362,880
		Chemical substances handled (kg)	5,941
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	37,788
		NOx (kg)	19,149
		SOx (kg)	949
		Chemical substances released (kg)	3,116
	Waterways	Wastewater (m <sup>3</sup> )	251,175
		COD (kg)	5,016
		Nitrogen (kg)	2,686
		Phosphorus (kg)	55
		Chemical substances transferred (kg)	0
	Materials discarded	Recycled for profit (t)	9,756
		Recycled at a charge (t)	1,122
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (kg)	0

### Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released			Amount transferred Sewage : Waste	Amount recycled	Amount Removed and treated	Amount consumed	Unit : kg/year
			Atmosphere	Waterways	Soil					
80	Xylene	3,092	3,092	0	0	0	0	0	0	
438	Methylnaphthalene	2,722	14	0	0	0	0	0	2,708	

# Environmental Data by Operations Base ④

This page includes the environmental data for 2 locations, Nara and Higashi-kariya, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2013 to March 2014

## Nara Plant

No. of Employees 2,060



### Production items

- Electric power steering
- Electric pumps for hydraulic-electric type power steering
- Hydraulic power steering
- Manual steering

### Overall environmental data

INPUT		Classification	Volume
		Energy consumption (GJ)	225,136
		Water consumed (m <sup>3</sup> )	57,799
		Chemical substances handled (kg)	13,141
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	8,446
		NOx (kg)	97
		SOx (kg)	50
		Chemical substances released (kg)	11,893
	Waterways	Wastewater (m <sup>3</sup> )	35,380
		COD (kg)	267
		Nitrogen (kg)	481
		Phosphorus (kg)	97
		Chemical substances transferred (kg)	0
	Materials discarded	Recycled for profit (t)	1,168
		Recycled at a charge (t)	504
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (kg)	129

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.9~8.5	7.4	7.2
COD	12	9.9	7.9
BOD	12	2.2	0.8
SS	20	0.6	0.1
Oil content	2	0.9	0.1

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Soluble iron	1	0.06	0.05
Soluble manganese	1	0.05	0.04
Nitrogen	40	27	16
Phosphorus	15	4.7	3.1

\* Less than regulatory amounts

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
No. 1 Plant, No. 1 (Boiler)	Dust	0.24	0.01
	NOx	144	59
	SOx	1.60	0.03
No. 1 Plant, No. 2 (Boiler)	Dust	0.24	0.01
	NOx	144	56
	SOx	1.60	0.03
South No. 2 Plant (Boiler)	Dust	0.24	0.002
	NOx	144	52
	SOx	1.6	0.01

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

### Noise / Vibration data

Index	Regulation value	Results	
		Maximum	Average
Noise	Morning	64	54
	Afternoon	67	56
	Evening	64	53
	Night	54	49
Vibration	Daytime	59	39
	Nighttime	54	38

Unit : dB

### Foul odor

- \* Malodorous substances (22 substances) were measured.
- \* All items were below minimum determination limit.

### Substances subject to PRTR

Substance number	Chemical name	Amount handled	Amount released				Amount recycled	Amount removed and treated	Amount consumed
			Atmosphere	Waterways	Soil	Waste			
80	Xylene	8,889	8,889	0	0	0	0	0	0
300	Toluene	2,993	2,993	0	0	0	0	0	0

Unit : kg/year

## Higashi-kariya operations center

No. of Employees 118



### Overall environmental data

INPUT		Classification	Volume
		Energy consumption (GJ)	41,699
		Water consumed (m <sup>3</sup> )	5,333
		Chemical substances handled (kg)	0
OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	1,656
		NOx (kg)	236
		SOx (kg)	102
		Chemical substances released (kg)	0
	Waterways	Wastewater (m <sup>3</sup> )	3,799
		COD (kg)	15
		Nitrogen (kg)	15
		Phosphorus (kg)	0.09
		Chemical substances transferred (kg)	0
	Materials discarded	Recycled for profit (t)	156
		Recycled at a charge (t)	99
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (kg)	0

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	6.0~8.3	7.5	7.2
COD	16	4.5	3.8
BOD	16	4.2	1.5
SS	16	1.5	1.1
Oil content	4	0.5	0.1
Zinc	2	0.2	0.1

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Soluble iron	4	0.5	0.5
Soluble manganese	4	0.25	0.18
Fluorine	5	0.14	0.11
Nitrogen	48	4.8	3.8
Phosphorus	6	0.04	0.02
Boron	8	0.03	0.02

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (Hot and cold water generator)	Dust	0.12	0.003
	NOx	104	73
	SOx	0.46	0.01

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Index	Regulation value	Results	
		Maximum	Average
Noise	Morning	64	49
	Afternoon	69	48
	Evening	64	49
	Night	59	48
Vibration	Daytime	68	26
	Nighttime	63	24

Unit : dB

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	12	Less than 10

### Substances subject to PRTR

\* No substances had handling amounts of over 1,000 kg/year

# Environmental Data by Operations Base ⑤

This page includes the environmental data for 2 locations, Toyohashi and Tadomisaki, out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period]** April 2013 to March 2014

## Toyohashi Plant

No. of Employees 791



### Production items

- Hydraulic power steering
- Manual steering
- Safety handle column

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	335,217
		Water consumed (m <sup>3</sup> )	50,842
		Chemical substances handled (kg)	2,306
	OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )
NOx (kg)			1,659
SOx (kg)			74
Chemical substances released (kg)			572
Waterways		Wastewater (m <sup>3</sup> )	5,808
		COD (kg)	22
		Nitrogen (kg)	33
		Phosphorus (kg)	1.4
		Chemical substances transferred (kg)	0
Materials discarded		Recycled for profit (t)	2,664
		Recycled at a charge (t)	472
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (kg)	123

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	6.1~8.4	7.6	7.2
COD	16	5.5	4.2
BOD	16	1.8	1.1
SS	24	1.0	1.0

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Oil content	4	1.0	1.0
Nitrogen	48	13	6.7
Phosphorus	6	0.6	0.4

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
No. 1 Plant (Boiler)	Dust	0.03	0.002
	NOx	120	34
	SOx	1	0.002
No. 2 Plant (Hot and cold water generator)	Dust	0.03	0.001
	NOx	120	29
	SOx	1	0.003
No. 3 Plant (Hot and cold water generator)	Dust	0.03	0.001
	NOx	120	18
	SOx	1	0.001

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx= Value K

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	60	55
	Afternoon	65	59
	Evening	64	53
	Night	59	51
Vibration	Daytime	55	43
	Nighttime	50	36

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	14	10

### Substances subject to PRTR

Unit : kg/year

Substance number	Chemical name	Amount handled	Amount released			Amount transferred		Amount recycled	Amount Removed and treated	Amount consumed
			Atmosphere	Waterways	Soil	Sewage	Waste			
453	Molybdenum and its compounds	1,589	0	0	0	0	0	0	0	1,589

## Tadomisaki Plant

No. of Employees 1,203



### Production items

- Drive shafts
- 4WD coupling

### Overall environmental data

		Classification	Volume
INPUT		Energy consumption (GJ)	721,695
		Water consumed (m <sup>3</sup> )	148,433
		Chemical substances handled (kg)	565
	OUTPUT	Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )
NOx (kg)			1,252
SOx (kg)			75
Chemical substances released (kg)			16
Waterways		Wastewater (m <sup>3</sup> )	64,672
		COD (kg)	794
		Nitrogen (kg)	566
		Phosphorus (kg)	13
		Chemical substances transferred (kg)	0
Materials discarded		Recycled for profit (t)	10,484
		Recycled at a charge (t)	769
		Waste (incineration+landfill) (t)	0
		Chemical substances transferred (kg)	54

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	6.0~8.8	7.6	7.3
COD	18	8.0	5.5
BOD	18	5.7	2.6
SS	24	1.0	1.0
Oil content	1.6	0.50	0.50
Zinc	0.8	0.01	0.01

Unit : mg/l (Excluding pH)

Index	Regulation value	Results	
		Maximum	Average
Soluble iron	2.4	0.1	0.1
Soluble manganese	4	0.1	0.1
Fluorine	12	0.1	0.1
Nitrogen	24	15	6.25
Phosphorus	3.2	0.4	0.12
Boron	184	0.2	0.125

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
Boiler (Hot and cold water generator)	Dust	0.1	0.001
	NOx	104	91
	SOx	0.6	0
Continuous carburizing furnace	Dust	0.1	0.001
	NOx	104	32
	SOx	0.6	0.001

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Unit : dB

Index	Regulation value	Maximum	Average
Noise	Morning	64	60
	Afternoon	69	60
	Evening	64	60
	Night	59	57
Vibration	Daytime	55	44
	Nighttime	50	44

### Foul odor

Measurement item	Regulation value	Measurement
Odor index	16	10

### Substances subject to PRTR

\* No substances had handling amounts of over 1,000 kg/year



# Environmental Data by Operations Base ⑦

This page includes the environmental data for Sayama Plant out of our 13 locations; 12 domestic plants and 1 operations center.

**[Chemicals]** Substances subject to PRTR **[Atmosphere]** Measured values are the maximum values **[Water quality]** pH: Hydrogen-ion concentration/ COD:Chemical oxygen demand/ BOD: Biochemical oxygen demand/ SS: Suspended solids in water/ Oil content: N-hexane extract content/ ND: Lower than determination limit/ Values in parenthesis show the daily average values **[Regulated value]** JTEKT internal standards (some more stricter than regulatory amounts) **[Substances subject to PRTR]** Shows substances which are handled in amounts of 1,000 kg/year or more. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulations. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc. within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products. **[Target period] April 2013 to March 2014**

## Sayama Plant

No. of Employees 68

### Production items

- TORSEN



### Overall environmental data

INPUT		
Classification		Volume
Energy consumption (GJ)		33,472
Water consumed (m <sup>3</sup> )		5,085
Chemical substances handled (kg)		884
OUTPUT		
Atmosphere	Greenhouse gases (t-CO <sub>2</sub> )	1,299
	NOx (kg)	153
	SOx (kg)	21
	Chemical substances released (kg)	884
Waterways	Wastewater (m <sup>3</sup> )	2,767
	COD (kg)	1
	Nitrogen (kg)	4
	Phosphorus (kg)	0
Chemical substances transferred (kg)	0	
Materials discarded	Recycled for profit (t)	652
	Recycled at a charge (t)	89
	Waste (incineration+landfill) (t)	0
	Chemical substances transferred (kg)	0

### Water quality measurement data

Index	Regulation value	Results	
		Maximum	Average
pH	5.2~8.8	7.2	7.2
Oil content	4	ND	ND
Nitrogen	192	20	20
Phosphorus	25.6	ND	ND

Unit : mg/l (Excluding pH)

### Atmosphere measurement data

Facility	Index	Regulation value	Maximum value
No.1 Plant (Boiler)	Dust	0.08	0.002
	NOx	120	79
	SOx	0.52	0.004

Unit : Dust= g/Nm<sup>3</sup> NOx= ppm SOx=Nm<sup>3</sup>/hr

### Noise / Vibration data

Noise / Vibration data				Unit : dB
Index		Regulation value	Maximum	Average
Noise	Morning	64	60	59
	Afternoon	69	61	58
	Evening	64	59	55
	Night	59	58	52
Vibration	Daytime	Unmeasured		
	Nighttime	Unmeasured		

### Foul odor

\* Unmeasured

### Substances subject to PRTR

\* No substances had handling amounts of over 1,000 kg /year