Data on KUBOTA Group Overseas Production Sites 2022 Kubota Engine Thailand (KET)

1.Outline

Address	No.360 Moo 3, T.Khao Hinson,		
	A.Phanomsarakarm, Chachoengsao, 24120		
Number of employee	485 (Dec, 2021)		
Site area	75,856 m²		
Establishment day	24-Feb-11		
ISO14001 certification date		3-Jul-2015	
Site overview	Manufacturing of vertical type diesel engines		



Vertical type Diesel Engines

3 .Environmental, Safety and Occupational Health Policy

KUBOTA Engine (Thailand) Co. Ltd (KET), a leading manufacturer of diesel engines for agricultural and industrial machinery recognizes the importance of environmental protection as well as the occupational health and safety of employees, local communities and society overall. The company, therefore, is committed to operate with the environment, safety and employees health in mind. Policies to support this operation as detailed in the following.

- 1. KET is committed to prevent accidents and occupational diseases by improving working environments which present an unacceptable risk of harm and strictly complies with the company's safety regulations.
- KET is responsible to society by considering environmental impacts, which are caused by human activities, products including energy saving, as well as the reuse of resources, in its operations. In addition it will continue to protect the environment and prevent pollution.
- 3. KET has encouraged and supported employees to create a workplace in accordance with the 5S principles to improve operation, safety,
- and equipment maintenance as well as using an appropriate protective equipment to reduce accidents and prevent occupational diseases.
- 4. KET continues training activities to educate and create awareness on environmental, safety and occupational health to employees.
- 5. KET will continue to comply with legal and regulatory requirements related to the environment, safety and occupational health.
- 6. KET communicates to all employees about its environmental, safety and occupational health policy, including information on the implementation.
- 7. KET communicates to interested parties about its environment, safety and occupational health policy and accepts comments and complains.
- 8. KET continues to review objectives, targets, and results of overall operation on environmental, safety and occupational health for better improvement.

inonmental performance data (Jan. 2021 to Dec. 2021)				
Used amount of energy	Crude oil	2.597		
	equivalent KL	2,597		
Used amount of water	thousand m ³	26		
CO ₂ emission*	tons CO2e	4,866		

4.Environmental performance data (Jan. 2021 to Dec. 2021)

^{*}CO₂ emissions from energy sources.

Air Polluta	nt measurement results			
Mair	n smoke and soot generation facilities		Heating furnaces	
	Unit	Control content	Control value	Maximum me
SOx	ppm	Concentration control	950	2
NOx	ppm	Concentration control	200	68

Particulate	mg/m ³		Concentration control	240	13
	Amount of discharge wat	er	thousand m ³ No external water discha		
Amount of pollutant in discharge water	COD	kg	-		
	Nitrogen	kg	-		
	Phosphorus	ka	-		

Water pollutant measurement results				
		unit	Control value	Maximum measured
	рН	-	5.5 ~ 9.0	6.9, 7.5
	BOD	mg/L	< 20	2.0
	COD	mg/L	<120	37.00
	Nitrogen	mg/L	< 100	2.11
Treated	Phosphorus	mg/L	-	26.50
water*	Hexavalent chromium	mg/L	< 0.25	0.1
(Recycled)	Lead	mg/L	< 5	<0.05
	COD, total emission control	kg/day	-	1.34
	Nitrogen, total emission control	kg/day	-	0.08
	Phosphorus, total emission control	kg/day	-	1.03
	SS	mg/L	< 50	1

Waste discharge	tons	643
Recycling ratio	%	99.7%
VOC emission	tons	3

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5.Environmental Topics

1. Electrical reduction (Energy Just In Time Concept).







1.3 Control On/off air condition for blowing to reduce the heat of Cylinder head after the washing process at CH1-OP80



1.4 Control On/off for oil mist collector at CH2-OP10,20,40,50 on break time



NO. ADDRESS	PRESET	ACC
1 T0000	600000	48
2 T0002	0	48
3 T0004	0	48
4 T0006	0	48
5 T0008	0	48
6 T0010	0	48
7 T0012	0	48
8 T0014	0	48

1.5 Stop hydraulic motor during break time at CH2-OP8



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Data on KUBOTA Group Overseas Production Sites 2022 Kubota Engine Thailand (KET) 1.12 Stop machine press gear fuel camshaft motor pump at the Sub line during lunch and midnight breaks 1.13 Stop motor pump of the machine water leak at the Main line OP-C-130 during lunch and midnight breaks. 1.14 Overhaul air compressor no. 1-4 then aroun air compressor applications according to the efficiency of the air compressor and load of machine used +105.2 PF +0.896 +22.6k cm+ +0.978 47.0k tan\$ +0.215 117.4 1.15 Installing film filters in the seminar room 1.16 Installing film filters in the office zone 2. Water reduction 2.1 Change tap water to RO reject water for general cleaning work : Painting line, RO plant, glove washer 2.2 Install sensor faucet at the sink at the cafeteria and toilet in the whole factory

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6. Environmental Communication

1. CSR Y 2022

On 28 June 2022 at Sawang Sattha Thammasathan School Donation of the canteen and improve the city water pipe system





2. Eco-challenge activity. [Campaign the environment month] On June - July 2022 at KET.



3. Safety & Environment & Energy week On 1 - 3 Aug 2022 at KET.





