

Ethylene Gas Blower

Energy Savings and Lubrication Improvement

THE PERFORMANCE OIL THAT OUTPERFORMS

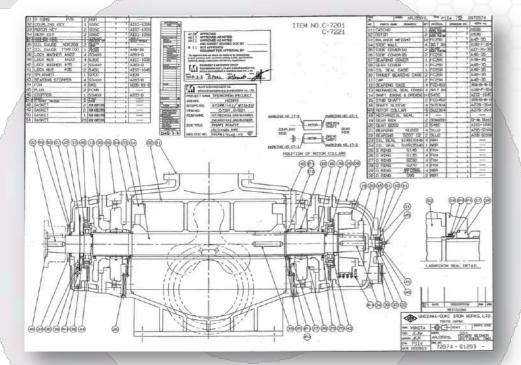
ENERGY SAVINGS & LUBRICATIONS IMPROVEMENT

The Equipment Information



Machine: Recycle Gas Blower Driven by: ABB Motor, 380 kW(239 Amp) Serviced: N/A hrs Oil Capacity: 18 Liters Lube Oil Type: Shell Turbo T68

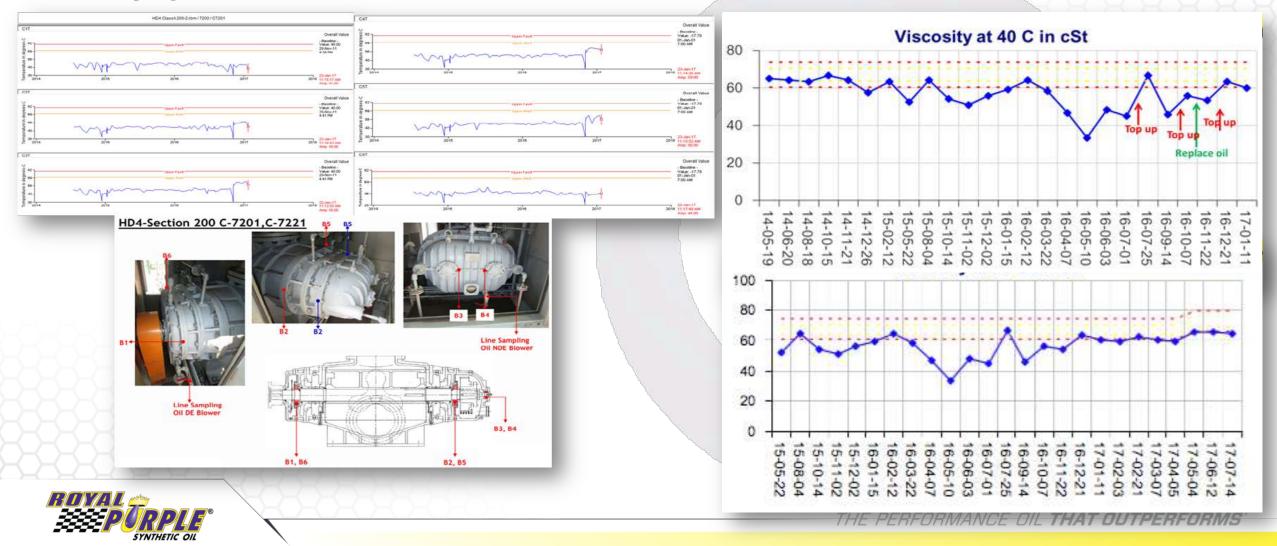




Manufacturer: Unozawa-Gumi Iron Work, Ltd. Volt: 690V / 3Phase3Wire Energy Cost: 3.50 THB/Unit Oil Change Interval: 6 Months but online Top-up every 2 weeks Issue: Oil Dilution and Extremely Viscosity Drop

ENERGY SAVINGS & LUBRICATIONS IMPROVEMENT

The Equipment Information



Thermaography Inspection Reports



Company:Thai Polyethylene (HDPE4)Equipment:Ethylene Gas Blower 1st Stage, C-7201 (Unozawa, 380 kW)Lube Oils:Before - Shell Turbo T68After - Royal Purple Synfilm NGL 68

Temperatures & Reduction	Before	After 01	After 02	After 03
	720 hrs 11-04-17 02:00 pm	400 hrs 04-05-17 02:00 pm	1,500 hrs 23-06-17 04:00 pm	2,480 hrs 03-08-17 02:00 pm
Non Drive End Side_01 Temp.Drop After 01: 2.2°C Temp.Drop After 02: 21.3°C Temp.Drop After 03: 13.5°C				
	67.6°C	65.4°C	46.3°C	54.1°C
Non Drive End Side_02 Temp.Up After 01: 1.2°C Temp.Drop After 02: 17.5°C Temp.Drop After 03: 10.0°C				
	63.8°C	65.0°C	46.3°C	53.8°C
Non Drive End Side_03 Temp.Drop After 01: 1.5°C Temp.Drop After 02: 18.1°C Temp.Drop After 03: 9.6°C				
	64.4°C	62.9°C	46.3°C	54.8°C

Update: 29-Nov-2017

Thermaography Inspection Reports



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Temperatures & Reduction	Before	After 03	After 04	After 05
	720 hrs 11-04-17 02:00 pm	2,480 hrs 03-08-17 02:00 pm	3,300 hrs 08-09-17 10:00 am	4,300 24-09-17 02:00 pm
Non Drive End Side_01 Temp.Drop After 03: 13.5°C Temp.Drop After 04: 13.5°C Temp.Drop After 05: 13.5°C				
	67.6°C	54.1°C	54.1°C	54.1°C
Non Drive End Side_02	Contraction Contraction of the state	anna Colora at a	In the state of th	and the Co
Temp.Drop After 03: 10.0°C Temp.Drop After 04: 9.7°C Temp.Drop After 05: 9.7°C			Ē	
	63.8°C	53.8°C	54.1°C	54.1°C
Non Drive End Side_03 Temp.Drop After 03: 9.6°C Temp.Drop After 04: 9.3°C Temp.Drop After 05: 12.0°C				
	64.4°C	54.8°C	55.1°C	52.4°C

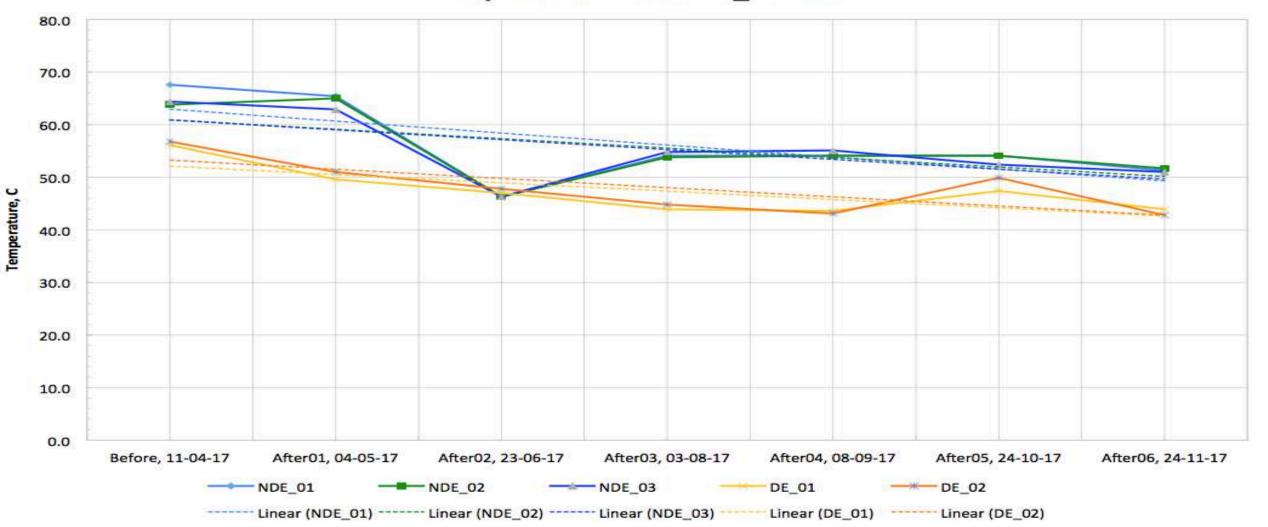
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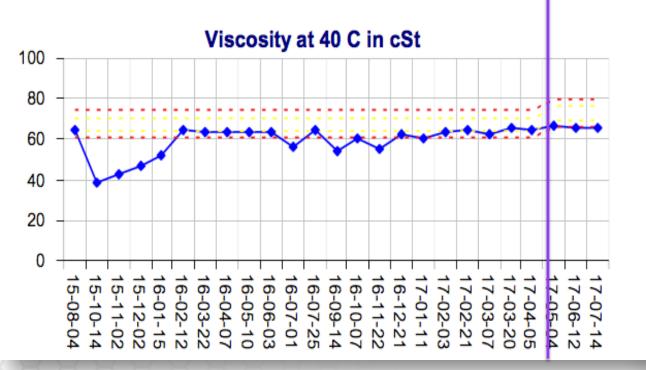
Temp. Reduction Trend_C7201

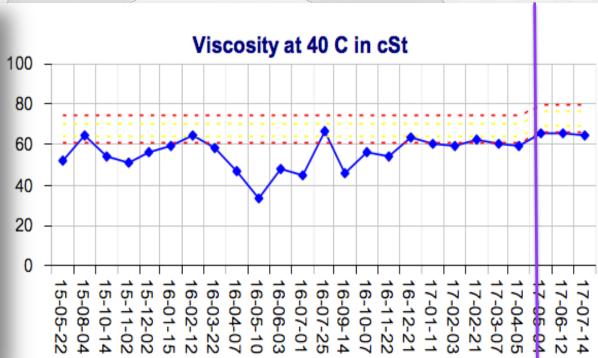


ENERGY SAVINGS & LUBRICATIONS IMPROVEMENT

Synfilm NGL 68

DE SIDE





NDE SIDE



THE PERFORMANCE OIL THAT OUTPERFORMS



Tough Jobs Require Tough Solution.

THE PERFORMANCE OIL THAT OUTPERFORMS