

Item Hazard Report

Asset Information

Type	Rotary Lobe Pump	Location	Hilco Global, Victoria, Australia
Make	Alfa Laval	Model	Optilobe 13
Serial Number	E260507	Sale – Asset ID	2581-17

PLANT/EQUIPMENT SAFETY ADVICE TO PURCHASERS

The Occupational Health & Safety Regulations 2017 (Regulation 90) requires suppliers of plant and equipment to provide written advice to a purchaser as to condition of the item and any known safety hazards or concerns. The information provided in this report is based on a visual inspection only. No physical testing has been conducted (eg. Wire rope testing, stress testing, structural/non-destructive testing, noise testing, vibration testing, brake testing, insulation testing, etc.)

The item described within this report is being sold in an 'as-is' condition with all identified safety hazards or concerns outlined within this report.

Purchasers should conduct their own risk and hazard assessments to identify and control hazards prior to installing and/or using the equipment.

Potential Hazards

Category 1: Major Potential Hazards

Specific warnings or conditions	<ul style="list-style-type: none"> Refer to any technical or operating manuals, safe use instructions that are made available
Entanglement	<ul style="list-style-type: none"> Lack of guarding PPE, Hair or other body parts caught in moving parts Rotating parts
Crushing	<ul style="list-style-type: none"> Falling, uncontrolled or unexpected movement of item or load Item tipping or rolling over Being trapped under or between the item, and/or fixed structure Struck by moving parts



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Category 1: Major Potential Hazards	
Striking	<ul style="list-style-type: none"> ▪ Item disintegrating ▪ Work pieces thrown out ▪ Moving parts
Explosion or loss of contents	<ul style="list-style-type: none"> ▪ Gas, dust or vapour emissions ▪ Storage of haz chemicals/ DG's near item ▪ Collapse or fragmentation
Fire	<ul style="list-style-type: none"> ▪ Friction ▪ Ingress of materials/fluids ▪ Build-up of materials/ lubricants ▪ Fluids / lubricants
Hazardous fumes or vapours?	<ul style="list-style-type: none"> ▪ Hazardous chemicals/DG's from coolants
Dust	<ul style="list-style-type: none"> ▪ Explosive atmosphere ▪ Breathing hazard ▪ Reduced visibility
Loss of load	<ul style="list-style-type: none"> ▪ Materials falling or rolling from plant
Chemical	<ul style="list-style-type: none"> ▪ Leaking from item ▪ Splashing ▪ Explosion



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Category 2: Moderate Potential Hazards	
Pressure	<ul style="list-style-type: none"> ▪ Hydraulic leak ▪ Hydraulic system rupture ▪ Fluid penetration of skin ▪ Pressure control altered ▪ Pressure limiter failure ▪ Damaged hydraulic system
Electrical	<ul style="list-style-type: none"> ▪ Lack of insulation ▪ Contact with electrical conductors ▪ Poor earthing ▪ Water near equipment ▪ Lack of isolation
Cut, stab, or puncture	<ul style="list-style-type: none"> ▪ Lack of Guarding ▪ Flying objects ▪ Moving parts ▪ Pinch points ▪ Sharp edges
Shearing:	<ul style="list-style-type: none"> ▪ Between ▪ Two moving parts of the plant ▪ A part of the plant and a work piece / fixed structure ▪ A part of the plant and another object (e.g. plant or vehicle)
Abrasion, tearing or stretching:	<ul style="list-style-type: none"> ▪ Between ▪ A moving part ▪ A moving surface of the plant ▪ Material handled by the plant ▪ Continuous contact with moving parts
Slip, trip, or fall?	<ul style="list-style-type: none"> ▪ Liquid spills or solid waste materials on floor / ground
Isolation of energy sources?	<ul style="list-style-type: none"> ▪ Hydraulic pressure ▪ Compressed gases ▪ Electrical feeds/capacitors ▪ Motive power systems ▪ Suspended loads
Loss of power?	<ul style="list-style-type: none"> ▪ Loss of electrical supply ▪ Ability to lower suspended loads
Extreme temperature changes?	<ul style="list-style-type: none"> ▪ Fire ▪ Burns through conduction ▪ Convection ▪ Cryogenic burns ▪ Fluids overheating due to lack of maintenance
Radiation?	<ul style="list-style-type: none"> ▪ X-rays ▪ EMR ▪ Laser



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Category 3: Minor Potential Hazards	
Weather	<ul style="list-style-type: none"> Wet conditions Electrical storms
Vibration	<ul style="list-style-type: none"> Plant becomes unstable Causes physical problems for the operator whilst operating Operation could cause unacceptable vibration levels in nearby structures
Noise	<ul style="list-style-type: none"> Emit >85 dBA at the operator Effects operator communication
Light	<ul style="list-style-type: none"> At the controls At the task Darkens surrounding areas
Environment	<ul style="list-style-type: none"> Co-located equipment Isolation requirements
Operator training / qualifications	<ul style="list-style-type: none"> Training requirements Qualification requirements Competency assessments Documentation Operator's manual Equipment experience Product knowledge
Manual handling	<ul style="list-style-type: none"> Repetitive or sustained movements Awkward positions Strained movements Poorly designed seating Access for maintenance
Ergonomic - operating controls	<ul style="list-style-type: none"> Difficult to understand Function not identified Inappropriate controls & switches Labelling of controls and indicators

IMPORTANT NOTICE: It is recommended that this item be further tested, inspected or dismantled by the purchaser as necessary to assess any further hazards which are currently unknown. Under the Occupational Health & Safety Regulation 2017 it is a requirement for the plant owner, employer and operator to exercise a duty of care in the supply and safe operation of plant. Accordingly, before this item is used at any workplace it must be in a fully operational, safe and serviceable condition.

