

Shell – partnering for a successful future

The meat industries in Australia and NZ have long established reputations for supplying high quality meat products. Utilising modern meat processing and packaging systems the highest food safety standards are maintained.



For more than 100 years, Shell has been working with the meat industries in both countries, helping to ensure safe and efficient food production, from farm to the plate.



Shell supplies its H1 approved Cassida range of food grade lubricants to most of the biggest meat processors in Australia and New Zealand. As well as providing peace of mind supported by international approvals from the FDA, NSF, AQIS and MAF, Shell Cassida lubricants comply with the strict USDA standards.



But Shell provides abattoirs more than just high quality food grade lubrication. On-site bulk fuel services, Shell Card fleet management, reliability engineering services, waste oil disposal, oil condition monitoring and product application advice and assistance are just some of the products and services that Shell provides.



Global demand for Australian and New Zealand meat products has never been stronger, so the need to protect your brand and your reputation has never been higher. Shell Cassida - trusted and proven in meat industry.

Shell Meat Industry Solutions offer a range of unique benefits to abattoirs and slaughter houses.

- ✓ H1 Approved Food Grade Lubricants
- ✓ OEM Approvals
- ✓ HACCP Lubrication Surveys
- ✓ Technical Support and Advice
- ✓ Waste Management and Disposal
- ✓ Equipment Condition Monitoring
- ✓ Oil Condition Monitoring
- ✓ Thermal Imaging
- ✓ Vibration Analysis
- ✓ Ultra Sonic Acoustic Inspection Services
- ✓ Failure Analysis and Diagnosis
- ✓ Comprehensive Plant Audits
- ✓ Tailored Training Programmes
- ✓ Shell Card Fleet Management
- ✓ Bulk Fuel delivery
- ✓ Oilsafe Storage & Dispensing Containers

Giving you...

- ✓ Peace of mind
- ✓ Brand protection
- ✓ Increased uptime
- ✓ Lower maintenance costs

For technical assistance call:

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Shell Meat Industry Solutions



Shell Solutions for the Meat Industry

At Shell we are serious about working with the food industry. In addition to supplying quality fuels and lubricants, we also provide tailored services and solutions which include:

- Fully synthetic H1 approved Food Grade Lubricants – Shell Cassida.
- HACCP Lubrication Critical Control Point Auditing, throughout the food plant.
- Fluid Management Services – take the hassle out of applying the lubricant and let Shell do it for you.
- Reliability Centred Maintenance – increase uptime and decrease your total maintenance spend by up to 40% using proven techniques of Thermographic Imaging (for switch gear, detecting wear on bearings etc), Ultra-Sonic Acoustic Inspection (detection of compressed air and gas leaks etc), Shell Care Oil Condition Monitoring (detection and analysis of lubricant and wear debris), Vibration Analysis (pumps and other rotating equipment), Failure Analysis and Diagnosis.
- Training – train your staff to best practice standards including Safe Handling of Lubricants, Reliability Centred Maintenance, Correct Lubrication Application etc.
- Shell Card Fleet Management – provides convenience, simplicity and control over your fleet. Itemised GST invoicing, tailored reporting, superior management control and security.
- Bulk fuel delivered direct to your plant.
- Oilsafe lubricant storage & dispensing containers - prevent spills, wastage & contamination.

Shell Cassida – Lubricating the food industry

In the food and beverage manufacturing industry, the use of food safe machine lubricants can mean the difference between a good name and no name at all.

Traditionally, many 'approved' lubricants compromised machine life and performance because they were simply not up to the task of protecting today's modern, high-speed equipment.

Now, thanks to Shell, there's a range of food industry specific products and services that make compromise and health risks, excessive machine wear and damage to your good reputation things of the past.

The Shell Cassida family covers a range of applications:

Shell Cassida HF – Hydraulic Fluids.

Shell Cassida GL – Gear Oils.

Shell Cassida GLE – Specialty Gear Oil for can seaming equipment.

Shell Cassida CR – Compressor Oil for rotary compressors.

Shell Cassida Chain Oils.

Shell Cassida PL – food grade, all-purpose lubricant stops squeaks, frees parts, protects against corrosion.

Shell Cassida Greases – a comprehensive range for high temperature, low temperature, extreme pressure, general purpose and heavy duty applications (Cassida HTS, LTS, EPS, RWS, RLS, HDS).

Shell Cassida HT – Heat Transfer fluid.

Shell Cassida RC – Rotary Cooker fluid.

Food Grade Lubricant Approvals - what do they mean?

FDA Approval (Food & Drug Administration)

Lubricants whose components have FDA approval have been approved to be indirect food additives - in other words for incidental contact with food so long as they do not exceed the stated limits which are 10 parts per million for hydrocarbon oils.

USDA Approval (US Dept of Agriculture)

The USDA approved lubricants for incidental contact (ie H1) with food products. This activity ceased in September 1998. Prior USDA H1 approvals are now no longer valid. Suppliers should use a 3rd party (eg NSF) to register their lubricants or provide a letter of Guarantee to their customers that products are H1 food grade.

NSF H1 Approval (NSF International)

Registration of food grade lubricants with NSF is voluntary. NSF H1 Approval evaluation is identical to the former USDA rules.

AQIS Approval (Australian Quarantine Inspection Services)

AQIS approves lubricants for use in registered

establishments for the purpose of export meat orders. The only lubricant approved for incidental contact with food is lubricant Type A.

NZ MAF Approval (Ministry of Agriculture & Forestry)

MAF approval for a product is only valid for fish, game or meat processing plants under the direct supervision of MAF.

MAF C15 approved lubricants are the only lubricants approved for incidental contact with food and are based on FDA approvals.

Shell Cassida Food Grade Lubricants

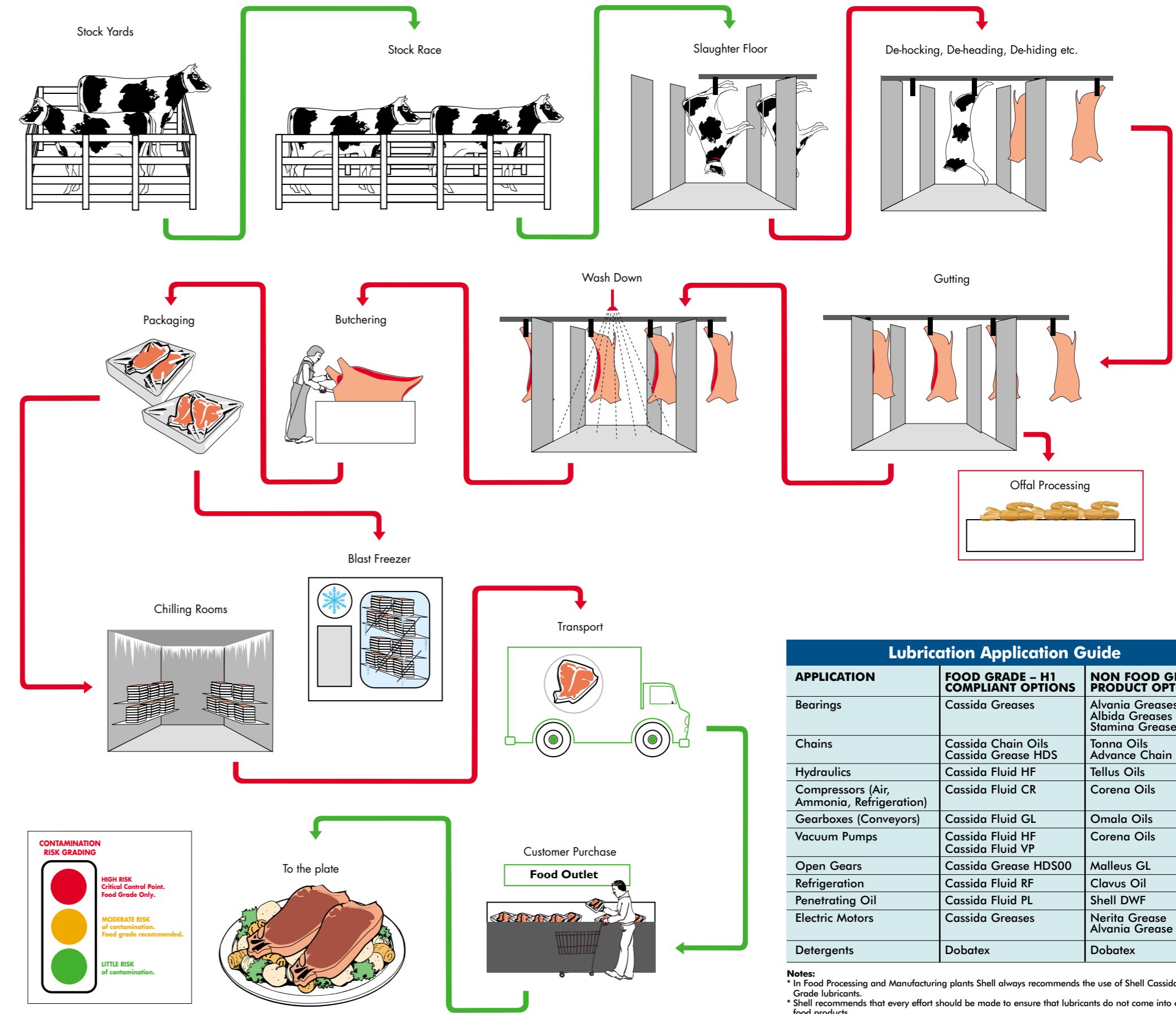
- ✓ Components approved by the FDA
- ✓ Formerly approved by the USDA as H1 compliant
- ✓ NSF H1 Approval on all products
- ✓ MAF C15 Approval
- ✓ AQIS Lubricant Type A Approval

Equipment Lubricant & Condition Monitoring Guide

PROCESS	LUBRICATE	SERVICES
Yards	Gate hinges Water pumps	Vibration Analysis Ultra-Sonic Acoustic Inspection
Slaughter Floor	Hoists Chains Gear drives	Oil Condition Monitoring Vibration Analysis Thermography
De-hocking De-hiding De-heading Gutting	Hockcutters Rails, Pullers Airlines	Vibration Analysis Ultra-Sonic Acoustic Inspection
Washdown	Rails Conveyors	Thermography Ultra-Sonic Acoustic Inspection
	Bearings Gearbox, Pumps Electric Motor Chains	Vibration Analysis Ultra-Sonic Acoustic Inspection Thermography Oil Condition Monitoring
Carcass Chains	Gearbox Bearings Chains Rails	Vibration Analysis Thermographic Imaging Oil Condition Monitoring Ultra-Sonic Acoustic Inspection
Butchering	Bearings Gearbox, Chains Runners, Saw Hydraulic Power packs Electric Motors	Vibration Analysis Thermographic Imaging Oil Condition Monitoring Ultra-Sonic Acoustic Inspection
Packaging	Conveyors Geardrives Vacuum pumps Airlines	Vibration Analysis Thermographic Imaging Oil Condition Monitoring Ultra-Sonic Acoustic Inspection
Labelling & Packing	Bearings Rails, Gearbox Chain Drive Airline Electric Motor	Vibration Analysis Thermographic Imaging Oil Condition Monitoring Ultra-Sonic Acoustic Inspection
Shrink Tunnel	Rails, Gearbox Conveyors Electric Motor Bearings	Vibration Analysis Thermographic Imaging Oil Condition Monitoring Ultra-Sonic Acoustic Inspection
Chilling Rooms	Refrigeration unit Rails Conveyors	Thermographic Imaging Oil Condition Monitoring Vibration Analysis Ultra-Sonic Acoustic Inspection
Palletiser	Bearings Hydraulics Compressors Gearbox	Oil Condition Monitoring Reciprodynamics Vibration Analysis Thermographic Imaging
Blast Freezers	Refrigeration compressors Air compressors Chiller fans Hydraulic units Bearings, Chains Gearbox	Reciprodynamics Thermography Ultra-Sonic Acoustic Inspection
Offal Processing	Rails, Fans Fork hoists Breakers, Augers Geardrives, Pumps Decanters Conveyors, Screens Chain Drives Load out hoppers	Vibration Analysis Thermographic Imaging Oil Condition Monitoring Ultra-Sonic Acoustic Inspection
Conveyors	Gearbox, Bearings Electric Motors Chain Drives	Vibration Analysis Thermographic Imaging Oil Condition Monitoring
Boiler Room	Electric Motors Gearbox Chain Drive Bearing	Vibration Analysis Thermographic Imaging Oil Condition Monitoring
By Products	Electric Motors Gearbox, Bearings Chain Drive Hydraulic Reservoir	Vibration Analysis Thermographic Imaging Oil Condition Monitoring Ultra-Sonic Acoustic Inspection
Water Treatment	Electric Motors Gear Box, Bearings Drive Chains	Oil Condition Monitoring Vibration Analysis
Workshop (Engineering)	Electric Motors Head Stock Tail Stock, Saws Feedbox, Apron Oil points Bearings, Mills Drills, Lathes Grinders Hydraulic Press	Oil Condition Monitoring
Switchgear	Contacts	Thermographic Imaging (Annual Survey)

Notes:
* This table is a guide only. Contact Shell to arrange an Equipment Condition Monitoring Plant Audit.

Shell Meat Industry Solutions: Protecting your process, your product and your reputation



Lubrication Application Guide

APPLICATION	FOOD GRADE – H1 COMPLIANT OPTIONS	NON FOOD GRADE PRODUCT OPTIONS
Bearings	Cassida Greases	Alvania Greases Albida Greases Stamina Greases
Chains	Cassida Chain Oils Cassida Grease HDS	Tonna Oils Advance Chain Oil
Hydraulics	Cassida Fluid HF	Tellus Oils
Compressors (Air, Ammonia, Refrigeration)	Cassida Fluid CR	Corena Oils
Gearboxes (Conveyors)	Cassida Fluid GL	Omala Oils
Vacuum Pumps	Cassida Fluid HF Cassida Fluid VP	Corena Oils
Open Gears	Cassida Grease HDS00	Malleus GL
Refrigeration	Cassida Fluid RF	Clavus Oil
Penetrating Oil	Cassida Fluid PL	Shell DWF
Electric Motors	Cassida Greases	Nerita Grease Alvania Grease RL
Detergents	Dobatex	Dobatex

Notes:
* In Food Processing and Manufacturing plants Shell always recommends the use of Shell Cassida Food Grade lubricants.
* Shell recommends that every effort should be made to ensure that lubricants do not come into contact with food products.
* This table is a guide only. Contact Shell for a Lubricant Recommendation Survey and HACCP Lubrication inspection.