

DESCRIPTION:	Zone 3. 12 Monthly Lubrication Maintenance	FREQUENCY:	12 Months
LOCATION:	ST22 Oxley Creek WRP	STD JOB ID:	LTS056

Spare Parts List	Maintenance Group
Castrol SP220 Gear Oil	THP Pulper Recirculation Pumps
Castrol AP3 Grease	THP Reactor Feed Pumps
Glycerine	THP Digester Feed Pumps
Castrol Alphasyn EP220	THP Foul Gas Ejector Pumps
Castrol Hyspin AWS68	Storage Digester 1 PDA Blower
Castrol Perfecto T68	Storage Digester 2 PDA Blower
Castrol White oil 15BP	Centrifuge Sludge Feed Pump Station
Castrol Mollub Alloy 936SF Open Gear Grease	Metal Salts Dosing System
	Odour Control Unit #1 (OCU#1)
	Sludge Recirculation Pumps
	Primary Digesters
	Storage Digesters
	WAS Interconnecting Pit
References	
CAMBI O&M Manual No. 25.1. Volume 1 (Appendix 1 to 4)	
Metal Salts Dosing System O&M Manual No.32	
Majortech Operation & Maintenance Manual. Book # 2 Equipment.	
Procedural Steps	
Thermal Hydrolysis pumps are overhauled during the shutdown. These inspections are visual.	
Removal of oil level plugs will be necessary for oil level inspection.	
Pulper Recirculation Pumps	
Check pump and mechanical seal for leakage.	
Check pipework and valving for leaks, defects.	
Grease exposed knife gate valve spindles with Mollub Alloy grease.	
Reactor Feed Pumps (2 off)	
Check gearboxes for oil leaks and check oil level.	
Check pumps for leaks around flanges, joints and mechanical seal.	
Check pipework and valving for leaks, defects.	
Grease exposed knife gate valve spindles with Mollub Alloy grease.	
Digester Feed Pumps (3 off)	
Check gearboxes for oil leaks and check oil level.	
Check pumps for leaks around flanges, joints and mechanical seal.	
Check pipework and valving for leaks, defects.	
Grease exposed knife gate valve spindles with Mollub Alloy grease.	

DESCRIPTION:	Zone 3. 12 Monthly Lubrication Maintenance	FREQUENCY:	12 Months
LOCATION:	ST22 Oxley Creek WRP	STD JOB ID:	LTS056

	Foul Gas Ejector Pumps
	Check pump and mechanical seal for leakage.
	Check pipework and valving for leaks, defects.
	Storage Digester 1 PDA Blower
	Check PDA Blower #1 oil level and top up if necessary with Alphasyn EP220./ Mobil SHC 630
	Check PDA Blower #2 oil level and top up if necessary with Alphasyn EP220./ Mobil SHC 630
	Centrifuge Sludge Feed Pump Station
	Drain Pump #1 gearbox oil and replace with SP220 gear oil.
	Drain Pump #2 gearbox oil and replace with SP220 gear oil.
	Drain Pump #3 gearbox oil and replace with SP220 gear oil.
	Lubricate all knife gate valve spindles with Mollub Alloy grease (5 off)
	Metal Salts Dosing System
	Drain Low Rate Dosing Pump #1 oil and replace with Hyspin AWS68.
	Drain Low Rate Dosing Pump #2 oil and replace with Hyspin AWS68.
	Primary Scrubber Recirculation Pumps
	Drain Primary Scrubber Recirculation Pump #1 oil and replace with Perfecto T68.
	Drain Primary Scrubber Recirculation Pump #2 oil and replace with Perfecto T68.
	Secondary Scrubber Recirculation Pumps
	Drain Secondary Scrubber Recirculation Pump #1 oil and replace with Perfecto T68.
	Drain Secondary Scrubber Recirculation Pump #2 oil and replace with Perfecto T68.
	Extraction Fan 1 and 2
	Remove the drive shaft guard, open bearing housings and replace bearing grease.
	Check condition of existing bearings.
	Re-install bearing housings and secure, then rotate fan assembly to check for smooth operation.
	Re-install the drive shaft guard.
	OCU Loading Bund Sump Pump
	Lift pump and change oil. Replace with Castrol White oil 15BP.

DESCRIPTION:	Zone 3. 12 Monthly Lubrication Maintenance	FREQUENCY:	12 Months
LOCATION:	ST22 Oxley Creek WRP	STD JOB ID:	LTS056

	Digester 3&4 Sludge Recirculation Pumps
	Check Sludge Recirculation pumps for noise, leaks, vibration.
	Lubricate all knife gate valve spindles with Mollub Alloy 936SF grease. (11 valves)
	Check all sludge pipework and valving for leaks, defects.
	Hot Water Bypass Valves
	Check all hot water pipework and valving for leaks, defects.
	Digester No.1
	Grease telescopic draw off valve pedestal bearing with 4 shots of AP3.
	Lubricate Digester 1 to Storage 1 isolation knife gate valve spindle with Mollub Alloy 936SF grease.
	Digester No.2
	Grease telescopic draw off valve pedestal bearing with 4 shots of AP3.
	Lubricate Digester 2 to Storage 1 isolation knife gate valve spindle with Mollub Alloy 936SF grease.
	Digester No.3
	Grease dome guide wheels with 10 shots of AP3. (5 guide units, 2 wheels per unit, 2 grease points per wheel)
	Checker plate covers will have to be removed to access all grease nipples.
	Grease telescopic draw off valve pedestal bearing with 4 shots of AP3.
	Lubricate Digester 3 to Storage 2 isolation knife gate valve spindle with Mollub Alloy 936SF grease.
	Lubricate Storage 1&2 interconnecting isolation knife gate valve spindle with Mollub Alloy 936SF grease.
	Digester No.4
	Grease dome guide wheels with 10 shots of AP3. (5 guide units, 2 wheels per unit, 2 grease points per wheel)
	Checker plate covers will have to be removed to access all grease nipples.
	Grease telescopic draw off valve pedestal bearing with 4 shots of AP3.
	Lubricate Digester 4 to Storage 2 isolation knife gate valve spindle with Mollub Alloy 936SF grease.
	WAS Interconnecting Pit
	Check condition of air bleeds and for bypassing.
	Check pipework and valving for leaks, defects.
	Operate the three knife gate vales checking for full stroke and operation of pneumatic actuator.