

PRT Ref	Type	End User	Asset	Tag	Duty	Medium	OEM	OEM Designation	API 610 Designation	Material Spec	Workscope	RE Castings?	Upgrade	Perf. Test
19-J2721	Repair	CNR International	Tiffany	410-PA-01A/B/C	Heating Medium Pump	TEG/Water	Sulzer	ZE 200-325	OH2	S1 (CS/CI/CS)	New casing cover, shaft & wear parts Sleeve bearing housing	Casing cover	No	No
19-J2719	Repair	CNR International	Tiffany	360-PA-04	GT Aux Lube Oil Pump	Lubricating Oil	Aris Chiappa (for Nuovo Pignone, GE)	CVTG 100/260	VS5	I1 (CI/CI/CS)	New wear parts & consumables	No	No	No
19-J2718	Repair	CNR International	Ninian Central	GA-0910	WI Booster Pump	De-aerated Sea Water	Weir Pumps Ltd (SPX)	Uniglide SDBZ 150/200	BB1	D2 (SD/SD/SD)	New impeller, shaft, throat bushes, water throwers, and TC coated impeller rings & shaft sleeves	Impeller Super Duplex	No	Yes
19-J2694	Repair	CNR International	Ninian Central	GA-0910	WI Booster Pump	De-aerated Sea Water	Weir Pumps Ltd (SPX)	Uniglide SDBZ 150/200	BB1	D2 (SD/SD/SD)	New impeller, shaft, throat bushes, water throwers, and TC coated impeller rings & shaft sleeves	Impeller Super Duplex	No	Yes
18-J2665	Repair	CNR International	Tiffany	TBC	LP Produced Water Pump	Produced Water	Waukesha Cherry-Burrel (SPX)	U320	Rotary Lobe PD	CF8M Casing, Waukesha 88 lobes & 17/4 PH Shaft	New timing gears & shafts	No	No	Yes
18-J2646	Repair	CNR International	Tiffany	TBC	LP Produced Water Pump	Produced Water	Waukesha Cherry-Burrel (SPX)	U320	Rotary Lobe PD	CF8M Casing, Waukesha 88 lobes & 17/4 PH Shaft	New rotary lobes	No	No	Yes
18-J2631	Repair	CNR International	Ninian Central	GA-0910	WI Booster Pump	De-aerated Sea Water	Weir Pumps Ltd (SPX)	Uniglide SDBZ 150/200	BB1	D2 (SD/SD/SD)	New impeller, shaft, throat bushes, water throwers, and TC coated impeller rings & shaft sleeves. Labyrinth recovery on brg hsg.	Impeller Super Duplex	No	Yes
18-J2624	Repair	CNR International	Ninian Central	Gas Turbine Ancilliary	Air Atomising Compressor for Gas Turbine	Air	Roots (Howden)	5 ¼ x 6 ¾ LAL-SP-SVP	Compressor	Cast Iron	New rotors & shafts	Rotors	No	No
16-J1760	Supply New	CNR International	Tiffany	360-PA-01	Condensate Extraction Pump	Natural Gas Condensate	Nuovo Pignone (GE)	Type A-2x8DDMx7 Stg	BB5	S5 (CS/CS/SS)	New pump cartridge assembly	6 off Series & a Last Stage impeller, and suction, intermediate & discharge casings	No	No
18-J2570	Repair	CNR International	Ninian Central	Gas Turbine Ancilliary	Air Atomising Compressor for Gas Turbine	Air	Piller	A-164A	Compressor	Cast Iron/SS	New Casing, shaft, impeller & shroud	Casing (CI)	Impeller m/c from solid bar (SS)	No
17-J2338	Repair	CNR International	Ninian Central	GA-0910	WI Booster Pump	De-aerated Sea Water	Weir Pumps Ltd (SPX)	Uniglide SDBZ 150/200	BB1	D2 (SD/SD/SD)	New impeller & consumables (arrived from stock, overhauled by WES)	Impeller Super Duplex	No	Yes
17-J2327	Repair	CNR International	Tiffany	360-PA-04	GT Aux Lube Oil Pump	Lubricating Oil	Aris Chiappa (for Nuovo Pignone, GE)	CVTG 100/260	VS5	I1 (CI/CI/CS)	New shaft, impeller, case & impeller rings, and bearing housing (Sleeve free issued)	Impeller Carbon Steel	No	Yes
17-J2219	Repair	CNR International	Ninian Central	GA-0910	WI Booster Pump	De-aerated Sea Water	Weir Pumps Ltd (SPX)	Uniglide SDBZ 150/200	BB1	D2 (SD/SD/SD)	New impeller & consumables (arrived from stock, overhauled by WES)	Impeller Super Duplex	No	Yes & NPSH
17-J2215	Repair	CNR International	Tiffany	TBC	LP Produced Water Pump	Produced Water	Waukesha Cherry-Burrel (SPX)	U320	Rotary Lobe PD	CF8M Casing, Waukesha 88 lobes & 17/4 PH Shaft	Plasma weld cover to recover clearance, sleeve gear assembly brg locs & HVOF Rotors. New timing gears & shafts)	No	No	Yes
17-J2213	Repair	CNR International	Ninian Central	GA-0910	WI Booster Pump	De-aerated Sea Water	Weir Pumps Ltd (SPX)	Uniglide SDBZ 150/200	BB1	D2 (SD/SD/SD)	New impeller & consumables (arrived from stock, overhauled by WES)	Impeller Super Duplex	No	Yes
17-J2206	Repair	CNR International	Ninian	GA-2529	Closed Drains Sump Pump	Crude Oil & Water	Sundyne	LMV-311	OH6 (Int. geared)	A8 (SS/SS/SS)	New diffuser cover, low speed shaft, idler shaft, & high speed shaft.	No	No	Yes inc. full Vib. Spectrum Analysis
17-J2078	Repair	CNR International	Ninian North	GA-2552	Closed Drain Sump Booster Pump	Crude Oil & Water	Mather + Platt (SPX)	Lynavane R.40H.YD.H	OH5	CS/SS/CS	New wear rings & backplate. Recovery of stool spigots.	Yes, backplate	No	No
18-J2613	Repair	Total	North Alwyn	G502	TEG Pump	TEG/Water	Pleuger/Worthington (Flowserve)	ERP 50-250	OH2	CS Construction	Sleeve brg hsg. New throat bush & thrower	No	No	No
17-J2163	Repair	Total	Elgin-Franklin	8-G-4210	Diesel Transfer Pump	Diesel	Begemann (Weir Group)	12DGix112	VS2	S6 (CS/12%CR/SS)	New wear rings, sleeve & bushes from pump end. New; bearing sleeves (11 off), sleeve couplings (3 off) & bearing bushes (11 off). Straighten 7 off lineshafts.	No	No	Yes w/ vib
18-J2468	Repair	Shell	Moss Moran	P-5201	Cooling Water	Plant Water	Mather + Platt (SPX)	Lynavane R.10G.YD.H	OH5	S1 (CS/CI/CS)	New impeller, wear rings and Colmonoy coated sleeve. Spigot recovery on backplate & stool (weld & m/c)	Yes, impeller	No	No

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18-J2524	Repair	Apache	Forties Bravo	P34	Sea Water Injection Pump	De-aerated Sea Water	David Brown (SPX)	6x8x11B MSD – D 4 stage	BB3	A8 (SS/SS/SS)	M/c impellers to accept wear rings as virgin necked. New impeller wear rings. TC Coatings/repairs: impeller rings, re-coat stage pieces, re-coat shaft sleeves, and re-coat casing rings.	No	No	No
15-J1647	Repair	Apache	Forties Bravo	P1771	Reclaimed Oil Pump	Crude Oil & sub micron sand	Mather + Platt (SPX)	Lynavane L.30G.YD	OH5	Super Duplex construction (dry motor shaft design)	New impeller , repair to casing volute and backplate. HVOF TC coated wetted areas	Yes, impeller	Yes, TC Coatings & ceramic wear rings	No
18-J2523	Repair	Apache	Forties Alpha	P75	LP Condensate Pump	Hydrocarbon & Water (210m3/hr @ 40m)	ABS (Sulzer)	CP20F	Canned Motor	S5 (CS/CS/SS)	New wear rings, shaft, carbon bushes and journal bearings	No	No	No
17-J2291	Repair	Apache	Forties Charlie	P1771	Reclaimed Oil	Reclaimed Oil & Produced Water (w/solids)	Flowserve	PVXM 14-14F	OH5	D2 (SD/SD/SD)	New TC coated; backplate c/w TC coated wear ring, case & impellers rings, and throttle sleeve & stuffing box bush. TC coat impeller (LOS) & diffuser (hyd. passages only).	Yes, backplate.	Yes, TC Coatings	No
17-J2289	Repair	Apache	Forties Charlie	P24	Sprinkler System Pump	Fire Water	Ingersoll Rand (Flowserve)	3x8A	OH2 (Tangential discharge)	S4 (CS/CS/CS)	New casing, backplate, shaft, wear rings, stuffing box bush and brg isolators	Yes, casing & backplate	No	No
17-J2277	Repair	Apache	TBC	TBC	Solar GT MLO Pumo	Lubricating Oil	IMO (Circor)	D313 XCIR-437AK/202	Triple Screw	Std	New casing & spacer sleeve	Yes, casing	No	No
17-J2278	Repair	Apache	TBC	P-2550	TBC	TBC	LaBour (SIHI/Flowserve)	23/2 UPLM	Self Primer	D2 (SD/SD/SD)	Replace casing, open impeller & wear plate with new parts with TC coating due to erosion present.	Yes; casing & open impeller	TC Coatings	No
17-J2100	Repair	Apache	Forties Alpha	P75	LP Condensate Pump	Hydrocarbon & Water (210m3/hr @ 40m)	ABS (Sulzer)	CP20F	Canned Motor	S5 (CS/CS/SS)	New casing, wear rings, shaft and carbon bushes	Yes, casing	No	No
16-J1929	Repair	Apache	Forties Delta	P03	Test Separator Booster Pump	Hydrocarbons & Produced Water	David Brown (SPX)	TBC	OH2 (top suc & top dis)	S6 (CS/12%CR/SS)	New; casing (all internals TC coated), impeller (LOS TC Coated), TC coated impeller & case rings,	Yes, casing	TC Coatings	Yes
16-J1766	Repair	Apache	Forties Bravo	P37	Sea Water Injection Pump	De-aerated Sea Water	David Brown (SPX)	6x8x11B MSD – D 4 stage	BB3	A8 (SS/SS/SS)	Re-chrome brg journals. Re-coat with TC; impeller wear rings, shaft sleeves & throttle bush	No	No	No
19-J2704	Repair	Chyrsoar	Armada	TBC	Fire Water Pump	Fire Water	Sulzer	BK550-036 2-Stg	VS1	AlBz/AlBz/Du	Replace spider bearing AR-HT bushes & recover spider spigots by weld with machine back. Fit repair rings to recover spigots on columns. Inconel coat two intermediate shaft ends at coupling locations. Make and fit new intermediate shaft sleeves & stuffing box sleeve. Make and fit new wear rings and sleeves to hyd. end.	No	No	No
18-J2487	Repair	EnQuest	Heather	G17	Cooling Water Circulation	Water	Weir Pumps Ltd (SPX)	Uniglide SDCc 125/150	BB1	CS/Bz/SD	Recover all four casing wear ring locations on fixed & removeable halves by: fixing half rings and line boring casing assembly. Free-issued; shaft, impeller, sleeves, wear rings & brg hsgs.	No	No	No
18-J2478	Repair	EnQuest	Heather	G18	Sea Water Lift	Sea Water	Peerless (Grundfos)	18HXB x 2stg	VS1	Ni-R/Ni-R/SD SD Shafting, Monel couplings, Ni-R Columns, fluor bushes	New impellers, pump shaft, top shaft & coupling hub. Fit new fluorosint bushes to bowls, spiders & stuffing box. Skim spider OD's to common size & spigot ring column pipe ends. Replace stuffing box spigot ring & make new gland follower.	Yes, Ni-Resist Impellers	No. Shafting previously upgraded to SD by other	No, full trial assembly completed (inc. headgear).
18-J2577	Parts	Eureka for Equinor	Stadfjord 'C'	N/S	Sea Water Injection Pump	Sea Water	Weir Pumps Ltd (SPX)	OK-5G-35D 10"/12"	BB5	D1/D2: Du/Du/SD	RE & Manufacture: Impellers w/ HVOF coated wear landings (virgin neck), diffusers, shaft, balance drum bush (HVOF TC coated), wear rings (HVOF TC coated), interstage sleeve, journal bearing sleeves and oil throwers. Re-coat (by laser cladding process): Balance drum	Yes, impellers (1st stg & series) & diffusers (1st, series & delivery)	Laser cladding of components & HVOF of BDB.	N/A
18-J2511	Parts	Eureka for Equinor	Njord	N/S	MEG Transfer Pump	Methanol & Glycol	MAS-DAF	INL	OH4	A8 (SS/SS/SS)	New casings & impellers	Yes, casing & impeller	No	N/A

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18-J2425	Repair	Eureka for ConocoPhillips	N/S	N/S	N/S	N/S	Sundyne	LMW-322-Z	OH6 (Int. geared)	D1 (Du/Du/Du)	Weld repair casing & cover, HVOF coat with TC. New impeller. Adjust gear ratio.	No	TC Coatings & pump speed	No
18-J2591	Parts	Eureka for N/S	N/S	N/S	N/S	N/S	DESMI	PVVF	OH4	Titanium	3D print & finish machine impeller, new stub shaft & case wear ring.	No	No	N/A
17-J2262	Parts	Eureka for N/S	N/S	N/S	N/S	N/S	Weir Pumps Ltd (SPX)	Isoglide	OH1	SD Impeller	Supply new SD impeller c/w integral TC coated wear rings & new casing wear rings	Impeller	No	N/A
18-J2636	Repair	Exxon-Mobil	Mossmorran, Fife Ethylene Plant	W-P-06	Cation Chemical Ejection Pump	Sulphuric Acid	Worthington Simpson (Flowserve)	40 HPX 160	OH2	Incoloy	New shaft, casing wear rings, impeller wear rings (Super Duplex),	No	No	No
18-J2563	Repair	Exxon-Mobil	Mossmorran, Fife Ethylene Plant	G-P-74A	Water Intake	Pond water (chemically dosed)	Worthington Simpson (Flowserve)	Tank type	VS4	I2 (Cl/Bz/CS)	New casing & cover c/w wear rings, impeller, shaft, & shaft sleeves. Re-sleeve spiders & fit new bushes. Sleeve thrust hsg. Repair laby on brg hsg.	Yes; casing, cover & impeller	No	No
18-J2564	Repair	Exxon-Mobil	Mossmorran, Fife Ethylene Plant	G-P-74C	Water Intake	Pond water (chemically dosed)	Worthington Simpson (Flowserve)	Tank type	VS4	I2 (Cl/Bz/CS)	New casing & cover c/w wear rings, shaft, shaft sleeves & column pipes. Re-sleeve spiders & fit new bushes. Sleeve thrust hsg. Repair laby on brg hsg.	Yes, casing & cover	No	No
18-J2517	Repair	Exxon-Mobil	Mossmorran, Fife Ethylene Plant	G-P-40B	Fire Water Pump	Fire Water	David Brown (SPX)	Unknown	VS1	Ni-R/SS/TBA to SD/SD/SD	New super duplex channel rings and diffusers. New column pipes	Hydraulic End Super Duplex	Yes	On site at commissioning
18-J2449	Repair	Exxon-Mobil	Mossmorran, Fife Ethylene Plant	C-P-03	Demethaniser BTMS Booster Pump	Light Hydrocarbons	David Brown (SPX)	8x10x16B DB62C	VS6	CS/SS/SS	New shaft and sleeves, Make and fit new wear rings & carbon bushes to bowls, and wear rings to impeller.	No	No	No
18-J2464	Repair	Exxon-Mobil	Mossmorran, Fife Ethylene Plant	Q-P-02	Process Water Stripper Feed Pump	Process Water	David Brown (SPX)	3x4x9	OH2	CS/Ni-R/SS	Urgent repair as casing was leaking until new casing could be supplied by Pinnacle. Weld up casing by; excavating pin hole leak, machine prep, weld to approved procedure, m/c back and hydro. New cover & throat bush, all other parts free-issued.	Casing on other job	TC coating to next casing	No due to time constraints
17-J2323	Repair	Exxon-Mobil	Mossmorran, Fife Ethylene Plant	W-P-06	Cation Chemical Ejection Pump	Sulphuric Acid	Worthington Simpson (Flowserve)	40 HPX 160	OH2	Incoloy	New Incoloy 825 casing wear rings, ferralium impeller wear rings, new bearing hsg & lantern, and NDE brg cover	Yes, brg hsg, lantern & cover	New castings from Cl to SS	No
17-J2188	Repair	Exxon-Mobil	Mossmorran, Fife Ethylene Plant	C-P-01	Hydrocarbon Transfer Pump	Light Hydrocarbons (Mostly Methane)	Pompes Guinard (SPX)	VMB 32x28 7 Stage	VS6	A8 (SS/SS/SS)	New shaft, suction impeller wear ring and coupling half	No	No	
16-J1694	Repair	Shell	Curlew	P-7301	Methanol Injection Pump	Methanol	LEWA	EGB1	API682	Std	New parts: shaft & gear wheels. Repair of eccentric disc & plunger rod.	No	No	Yes