

PLANT INFORMATION				
Plant Type:	D10T Dozer	Make:	Caterpillar	
Asset Number:	BC566	Model:	D10T	
Risk Assessment Completed:		Serial Number:	RJG04849	
MAINTENANCE LOG				
DATE	PLANT HOURS/ KMS	LOG - SERVICE/MAINTENANCE/REPAIR DETAILS2	COMPLETED	RESPONSIBLE PERSON
08.04.23		D10T - research dozer access stairs options, asked Capcoal w/s, ongoing, waiting for SSE approval		Haydn Cameron
16.04.23		Check oil levels etc, top up hyd oil	Y	Cameron Jones
20.04.23		Inspect overheating, clean radiator	Y	Haydn Cameron
23.04.23		Organise sparky	Y	Haydn Cameron
20.04.23	13,123	Overheating issue check coolant, ok found radiator was 60% plus blocked with grass debris, clean out & stall out - ok	Y	Cameron Jones
11.05.23	13236	Replace missing bolt on fire suppression cylinder, tighten all other bolts. Travel Middlemout - Emerald - Brisbane	Y	Haydn Cameron
20.05.23		Check alternator - light on, machine was in deepmud yesterday, alternator submerged, ordered replacement	Y	Haydn Cameron
21.05.23	13286	Clean mud from engine bay & radiators, removed inspection covers, opened, hosed out with water truck, replaced alternator & tested charge rate	Y	Haydn Cameron
22.05.23	13,286	Re-fit inspection covers & radiator grill. Re-check alternator		Haydn Cameron
23.05.23	13288	Air filter restriction alarm, blow out filters still coming back, Atmospheric pressure sensor voltage above normal (need Clean/inspect)		Haydn Cameron
24.05.23	13290	Remove inspection plates & wash out engine bay		Haydn Cameron
25.05.23	13290	Replace ripper boots		Haydn Cameron
06.06.23	13369	Remove belly plate & mud to inspect engine oil leak, cleaned oil, need to reinspect	Y	Haydn Cameron
08.06.23	13,373	Travel to dozer, remove radiator, clean out radiator/coolers, adjust track tension LH side	Y	Cameron Jones
10.06.23	13,392	Travel to D10 drain job, hook up ET, clear codes, ripper solenoid not working, drop belly guard to chase oil leak, appears to be the sump, need to clean up & inspect further, track frame chains, segments need attention, also found the equaliser bar cracked in the centre	N	Cameron Jones
15.06.23		Set up machine on stands for boiler makers to work on	Y	Haydn Cameron
15.06.23	13392	Prepare D10 for boiler repair, travelled to German Creek HME to borrow stands to sit machine on. Travel back to D10 - Drain, put machine on stands, took some weight of EQ bar. Ready for repairs	N	Cameron Jones
16.06.23	13,329	Remove cas cam & mine radio	Y	Haydn Cameron
13.07.23	13,329	Pick up stands from German creek HME set machine up on stands for welder	Y	Haydn Cameron
13.07.23		Pick up stands again for boiler from German Creek to Lake Lindsay set up machine for repairs. Awaited w/shop for prestart.	N	Cameron Jones
14.07.23	13,329	Remove stands from under machine and take back to German Creek HME	Y	Haydn Cameron
20.07.23		Source parts for receiving track plates on site		Darryl Mischki
24.07.23		Cut new grouser bar into 600mm lengths to relug track plates		Darryl
17.08.23	13393	travel from lake lindsay to D10 just past dysart, move machine for better access for boilers also remove belly guards on either side of the EQ bar, clean excess dirt stuck above belly guard, clean around EQ bar, remove bolts & retainer on EQ pin, daig belly guards out and clean out, remove keepers on ripper cylinder, try to move/knock pins out on rold end LH seized & RH moved, removed RH door to fit on D8 as window broke, pack up and travel back	N	Cameron
17.08.23		travel to dozer, move bulldozer to better location, remove retaining plate for tipper cylinder pins, knock pins to check for movement to be easily removed, remove belly guards around eq bar, clean out under body of dozer, pull belly guards out from underneath bulldozer, lift belly guards with crane and clean out belly guards, remove RHS door assembly, cover door way with plastic, travel back from bulldozer, remove grease lines and retaining plate on EQ bar	Y	Dylan
14.08.23		grouser bar cleaned up from d10 tracks		Ethan
15.08.23		set up vehicles for dozer repairs at dysart		Lachlan
17.08.23		travel to dysart, drop trailers off at job site		Lachlan
18.08.23	13,400	track plates d10 dysart		Lachlan
19.08.23	13,400	D10t weld on track plates re-lug		Lachlan
20.08.23	13,400	d10t track plates relug		Lachlan
15.08.23		organise gear to take to dysart		Darryl
15.08.23		pack ute for dysart - repairs to d10		Christian
17.08.23		drive to d10t - assess job, drop off trailer, 1x flat tyre, ute rego: 232ew2		Christian
18.08.23	13400	re-lug track plates		Christian
19.08.23	13400	re-lug track plates		Christian
20.08.23	13400	re-lug track plates		Christian
24.08.23		deliver door for D10 to Ken at dysart turn off	Y	
21.08.23		D10T track plates weld on grouser bar, lance cut ripper pin and eq bar		

22.08.23		D10T remove pins for ripper, lance and guoge out eq pin and remove		
23.08.23		travel to dysart to allroads workshop		
25.08.23	13403	set up stands for fron tof machine and blade move machine over stands, remove pins (end), from EQ bar split, LH trak and run of truck frame, drain oil and remoe outer axle on LH final, losen al mounting bolts, help will find electrical fault for ripper tilt, fit temp pins in repper lift rams - plus 20 % uplift		
26.08.23	13403	remove both ripper lift ram rods tidy up, remove eq bar clean up holes and inspect, remove both blade lift rams, load on truck, drain coolant remove RHS intercooler, remove radiator cores, clean up		
27.08.23	13403	remove broken bolts from rear idler scrapers mounts on eachside 5 bolts on LH final drive remove final and load into trailer cove and seal cavity, load EQ bar into trailer tie in ready to leave, remove coolant drain cox and block drain hose and cooler drain hose, remove radiator bottom tan as it was full of dirt from removing cores.		
25.08.23	13403	removed floor and trying to see why ripper tilt was not working,m tested soinoids (good), found a broken wire in hell hole and repaired - 20% uplift	y	
26.08.23	13403	pull intercooler out of RHS, remove everything connected or heard tank, removed heador tank, removed radiator bolts and pull all radiators. Pull eq bar out from under machine, removed to bladk lift rams - 20% uplift	y	
27.08.23	13403	removed fan motor, removed final drive and put in trailer, removed bottom radiator tank and hoses, load eq bar into trailer - 20% uplift	y	
23.08.23		fabricate flogging spanner for d10 ripper rams		
21.08.23	13400	re-lug track plates D10t		
22.08.23		Remove 2x ripper pins & remove 1x eq Pin		
23.08.23		travel dysart to home		
28.08.23		drill broken bolts in bottom radiator tank, but unabled o remov all, tidy up around machine - 20% uplift		Ken
31.08.23		travel from marlborough to brisbane workshop and unload truck with d10 parts - 20% uplift		Ken
28.08.23	13403	tidy p wiringin lell hole, pull of hose forhydraulic system in hell hole, travel to and from machine out camp - 20% uplift	y	William
31.08.23		drive from marlborough camp back to workshop - 20% uplift		William
04.09.23	13403	cleaned parts	y	Nelson
05.09.23	13403	cleaned, washed, sanded parts	y	Nelson
09.09.23	13403	filled 20L drum with oil packed radiator	y	Nelson
04.09.23	13403	stripped lift cylinder, cleaned up parts, fit new seals	n	Geordie
06.09.23	13403	strippe dother lift cylinder, started resealing	n	Geordie
08.09.23	13403	reassembling final drive, picked up parts	n	Geordie
09.09.23	13403	reassembled final drive, ordered parts, cleaned up mess	y	Geordie
04.09.23	13403	clean up, unload trailer and start disasembily on final drive	y	William
05.09.23	13403	finish disassembly of final drive, and press pins out of plunatarys, start cleaning park	y	William
06.09.23	13403	dissemble and rekist ripper pods and reassemble	y	William
07.09.23	13403	remove pods out of blade tilt cylinders and rekit and reseal rods and cylinders and put back together	y	William
08.09.23	13403	start reassembly on final drive and load trailer ready for dysart trip	y	William
09.09.23	13403	finish reassembly on final drive and clean up	y	William
11.09.23		Travel to Dysart		Ken Murray
11.09.23		Pick up parts	Y	Nelson Browning
11.09.23		Load up trailer with parts & move into another service truck	Y	William Rainbow
12.09.23		Fit hyd line from main pump to main control valve, clamp up, clean up bolts for radiator tank with a die nut, clean up tank & sit in place, clean up top & bottom hose flanges, remove broken bolt from tank support bracket, fit all 4 brackets leave loose for now, fit both blade lift rams & hose up. Unload back of ute & drop trailer off		Ken Murray
12.09.23		Drive from ws to Dysart	Y	William Rainbow
13.09.23		Check over parts found some misswing, make arrangements & go to Emerald & collect from Hastings, travel back fit upper/lower pipes to coolant tank, tighten coolant tank mounting bolts, fit new ac, alt belts & adjust up, fit new coolant, drain hose from back of block & coolers on RHS of engine, help loosen segment bolts on RH final, fit scrapers to both rear idlers		Ken Murray
13.09.23		Removed & resealed starter motor, start charging segments on final drive RHSq	Y	William Rainbow
14.09.23		Fit radiator cores, fit top tank connect up bolt down, fit RHS intercooler, fit covens to bonnet, fill with water top up hyd oil, start/run machine, connect up blade lift rams, top up hyd oil, set up & connect ripper lift rams, check for coolant leaks, unload EQ bar & drag under dozer		Ken Murray
14.09.23		Fit ripper cylinders & refit radiators, install fan motor, bracket & fan onto motor	Y	William Rainbow

15.09.23		Lift EQ bar up under machine, lift up main track, track framesstay on the ground, get bar to sit in track frame mounts, lower machine back onto stands. Line up centre hole fit pin set up press gear press pin in, line up outer pins in track frames, fit grease lines to EQ, bar outer pin torque outer pin retaining bolts to 1180lbft cat spec, move machine forwards to remove 3 last segments on RH final clean up, fit new segments & complete first torque to 600lbft, complete full torque on first 2 segments to 600lbft plus 120 dog turn, clean up rubbish & put in made up bin		Ken Murray
15.09.23		Fit new EQ bar & push centre pin in and torque track frame bolts, finished doing segments on LH final drive torqued & turned	Y	William Rainbow
16.09.23		Arrang4e blade tilt ram seal kit, clean up scab molunt for final, fit up final drive, unbolt scab unit & slide out of main frame, clean up fit new mounting seals, refit, torque up mount bolts to 590 lbft plus 90 dog, fit track & torque up to 600lbft plus 120 dog, Adjust both tracks fill pivot shaft with oil grease EQ & bearings, clean up under & around machine		Ken Murray
16.09.23		Fit final drive & pull clutch brake assembly & reseal, put back in and torque and turn bolts to spec, fill with oil, roll, track back up & bolt together, torqued & turned	Y	William Rainbow
17.09.23		Travel to dozer, finish 500hr service, position blade for cylinder removal, remove & reseal RHS blade tilt cylinder, refit cylinder, drain water from coolers & fill up with coolant, refit belly guards, tidy up rubbish, travel back from dozer	Y	Dylan Rouse
17.09.23		Travel to Mackay & collect parts at Hastings, return to site & strip out RH blade, tilt ram reseal & assemble, fit 2 belly guards, one on each side of EQ bar. Top up hyd oil after hyd functions had been cycled		Ken Murray
17.09.23		Complete 500hr service & oil samples, pull apart & reseal RH blade tilt cylinder, fit belly guards	Y	William Rainbow
18.09.23		Load up trailers, tie down, run up machine & move, checkover, oil levels etc, drive back to Brisbane		Ken Murray
19.09.23		Unload trailers, sort some emails, catch up on what has been on at ws		Ken Murray
24.09.23		Fit mine radio & CAS Cam system	Y	Geordie MacDougall
28.09.23	13409	drain transmission, remove belly guard, check screens on trans, heap of zip tie pieces in rear screen main trans pump screen, had a little metal monitor, cleaned out, drain convertor inspect screen - clean nothing found in screen, refill and check level, removed side doors to access rocker covers, removed ecm & cleaned off valley for diagnostic tests, check over machine also.	n	Cameron Jones
29.09.23	13410	Travel to lake lisa, remove panels to access rockers covers to carry out diagnostics on bad sample - fuel dilution in engine oil, removed fuel filter & put some dye in, removed covers & turn up run a few times and nothing came through injectors put back together, pack up & clean up	n	Cameron Jones
30.09.23	13413	continue on diagnosis, put more dye into fuel filter, started quickly & shut off, next was remove transfer pump to check for bypass fuel through seal, removed fuel lines & clamps cup off, clean out dirt from valve to access pump mounting, removed pump & inspected - appears to have a seal kit put through it, no dye in front shaft and seal area of pump, all seems ok - pack up & clean up	n	Cameron Jones
01.10.23	13413	Travel to lake lisa, continue with diagnosis, cleaned up parts of mounting surfaces for transfer pump, resleaded orings on fuel lines & fittings, fit pump & torque tip, fit p clamps, clean up surfaces on pipe from turbo to muffler fit elbow & tighten clamp, refit panels, tidy up, take another sample, Geordie took one previous to diagnosis, take sample & run up - appears fine - monitor	y	Cameron Jones
27.09.23		cut engine oil and trans oil filter and inspect - ok, dig out mud around rear drain/screen for trans, remove screen and found lots of zip ties and zip tie material, travel to bulldozer	n	Dylan Rouse
28.09.23		travel to D10 at lake lisa, drain transmission, drain converter, check converter screen, check top trans=screen, fill up trans, remove side panels to gain access to rocker covers	y	Dylan Rouse
28.09.23		put screens back in, put belly guard, look over machine for any leaks	y	Dylan Rouse
29.09.23	13410	remove rocker covers, add dye into fuel system, run engine and check for leaking injector, no injector leaks were found, put rocker covers back on, put side panels back on. Further diagnosis required. Put belly guard back up travel to dozer	n	Dylan Rouse
30.09.23		remove side panels, put more dye in fuel filter run machine, clean out valley around fuel pump, remove exhaust pipe and fuel lines, remove fuel pump, inspect fuel pump and seals, travel to bulldozer	y	Dylan Rouse
26.09.23	13410	sample engine oil, removed and changed oil filter. Replaced trans filters, still need to cut	n	Geordie MacDougall
27.09.23		cut engine oil & trans filter, all ok, checked screen (trans) found zip ties	n	Geordie MacDougall
13.10.23	13480	travel to bills hill & replace reverse alarm, check wiring & test - ok	y	Cameron Jones
21.10.23	13,486	fit topcon gps into machine, checkover pre coneq, replaced horns	y	Hayden Cameron
22.10.23	13,487	source & replace strike knob on rear fire suppression	y	Hayden Cameron
04.11.23	13,621	Removed GPS pole	Y	Hayden Cameron

02/03/23 328: Caterpillar D10T (Dozer)

Plant #: 328
Make: Caterpillar
Type: Dozer
Engine Number:
Status: ACTIVE
Model: D10T
Fuel: DIESEL
Serial Number: RJG04849

Service Type:
Sold/Disposed:
Variation:
Registration Number:



Scheduled	Service Type	On Meter (Hours)	Verified By	Details
25/02/23	Service	13027.00	MILBURN, Robert	1000hr service
24/02/23	Service	13021.00	REYNOLDS, Cameron	1000hr Service
21/02/23	Unscheduled Maintenance	13010.00	REYNOLDS, Cameron	Remove & replace transmission & torque convertor filter, drain top up trans fluids, drain & top up final drive with oil, recheck fluid.
10/02/23	Unscheduled Maintenance	12953.00	REYNOLDS, Cameron	Change out GPS cable
09/02/23	Unscheduled Maintenance	12952.00	REYNOLDS, Cameron	Replace grease nipple in ripper box
02/02/23	Unscheduled Maintenance	12908.00	REYNOLDS, Cameron	Check final drive oils, grease, top up with fuel
23/01/23	Unscheduled Maintenance	12842.00	REYNOLDS, Cameron	Change out ripper hose
12/12/22	Unscheduled Maintenance	12725.00	REYNOLDS, Cameron	Top up oil drives
09/12/22	Unscheduled Maintenance	12717.00	MILBURN, Robert	Remove carrier rollers, clean air filters, adjust tracks, replace AC vents, make new mounts for sire suppression bottle base, remove broken bolts from roller carrier.
07/12/22	Unscheduled Maintenance	12697.00	REYNOLDS, Cameron	Remove & refit GPS sensor on blade clean connections
21/11/22	Unscheduled Maintenance	12615.00	REYNOLDS, Cameron	Repair water leak at turbo to block line
17/11/22	Unscheduled Maintenance	12587.00	REYNOLDS, Cameron	Lift belly plates & tighten bolts, fit LH side doors, prime fuel system, program trim codes in ECM.
14/11/22	Unscheduled Maintenance	12587.00	REYNOLDS, Cameron	Drain transmission to hydraulic
08/11/22	Unscheduled Maintenance	12552.00	REYNOLDS, Cameron	Remove and replace ripper boots, adjust track
22/09/22	Unscheduled Maintenance	12353.00	REYNOLDS, Cameron	Electrical fault, check wire clean out injector wire plug
13/09/22	Unscheduled Maintenance	12313.00	REYNOLDS, Cameron	Drop belly lates, front clean up radiator core seating hose, & fit seal, clea out cores, fit new bottom radiator hose 4 x clean up sealing area
30/08/22	Unscheduled Maintenance	12247.00	REYNOLDS, Cameron	Replace grease line with nipples
25/08/22	Unscheduled Maintenance	12241.00	REYNOLDS, Cameron	Electrical fault sensor replace, check wiring rom computer to earth, electrical fault on e stop, ripper box wiring rubbing
25/08/22	Service	12234.00	REYNOLDS, Cameron	250hr service
16/08/22	Unscheduled Maintenance	12191.00	REYNOLDS, Cameron	Bad short in electrical circuit
11/08/22	Unscheduled Maintenance	12166.00	REYNOLDS, Cameron	Change out ripper hose
10/08/22	Unscheduled Maintenance	12154.00	REYNOLDS, Cameron	Change out ripper left cylinder hose, replace o ring lift cylinder control
04/08/22	Unscheduled Maintenance		REYNOLDS, Cameron	Ripper hose leaking inspect order hose
02/08/22	Unscheduled Maintenance	12102.00	REYNOLDS, Cameron	Change out wiper blade
20/07/22	Unscheduled Maintenance	12040.00	REYNOLDS, Cameron	Remove & Replace rippers boots & pins
19/07/22	Unscheduled Maintenance	12031.00	REYNOLDS, Cameron	Fit FM/Am Radio aerial
19/07/22	Unscheduled Maintenance		MAY, Rodney	Paint / Re prep D10 ripper lift cylinder. Locate bearing and grease seals (to be collected).-
18/07/22	Unscheduled Maintenance	12031.00	REYNOLDS, Cameron	Check over engine, misc carry out test all okay
12/07/22	Unscheduled Maintenance	11988.00	REYNOLDS, Cameron	Aerial still not fixed, parts ordered, GPS set up clean connection
11/07/22	Unscheduled Maintenance	11987.00	REYNOLDS, Cameron	Change main hydraulic pump, drain pump to tank, change main hydraulic control valve o rings, connect gps, sensor aerial. run aerial wiring through cab, drill out broken bolts on tag, link for GPS cable, replace AM/FM aerial
08/07/22	Service	11987.00	REYNOLDS, Cameron	2000 hr service - remove trans cooler pipe and reseal, remove engine oil filter housing release, order parts and drain hose
05/07/22				Change out U/S UHF hand piece.As above
05/07/22				Cutting edge flipAs above
05/07/22				Turn cutting edges on D10 change corner tipsAs above
27/06/22	Unscheduled Maintenance	11938.00	REYNOLDS, Cameron	Radiator needs blow out.Investigate.
23/06/22				Get 328 ready for transport.As above
23/06/22				Remove rops & bladeAs above
23/06/22				Remove blade rops & ripper tunes for transport.As above
23/06/22	Unscheduled Maintenance	11924.00	REYNOLDS, Cameron	Fit blade trunnion, lift cylinder, push arms, ripper tynes
23/06/22	Unscheduled Maintenance		MAY, Rodney	Assemble blade and rops remove ladder.-
23/06/22	Unscheduled Maintenance		MAY, Rodney	Remove ladder and load onto float.-
22/06/22	Unscheduled Maintenance	11923.00	MAY, Rodney	Unload 130, load 328 onto drop deck and rops.-
21/06/22				Turn cutting edges & new corn tipsAs above
21/06/22				Inspect for ex ladderAs above
21/06/22	Unscheduled Maintenance		MAY, Rodney	Part of service and demobe.-
16/06/22	Unscheduled Maintenance	11883.00	MAY, Rodney	Turn cutting edges and new carn tips.-
15/06/22	Unscheduled Maintenance	11883.00	MAY, Rodney	Inspect for ex ladder-
15/06/22	Plant Inspection	1192.10	KENNY, Clint	Plant Inspection
23/04/22	Unscheduled Maintenance	11741.00	MAY, Rodney	Fit new batteries -
19/04/22	Service	11941.00	MAY, Rodney	250hr service -
25/02/22	Unscheduled Maintenance	11484.00	MAY, Rodney	Remove grille, replace fan block relief valve start and run checkover. -
22/02/22	Unscheduled Maintenance	11484.00	MAY, Rodney	G6 inspect oil leak, remove front grill found leaking relief valve order parts ex rocky.-
28/01/22	Unscheduled Maintenance	11383.00	MAY, Rodney	Fit mine radio-
23/01/22	Unscheduled Maintenance	11373.00	MAY, Rodney	carry out inspection -
02/11/21	Unscheduled Maintenance	11222.00	MAY, Rodney	Two way fault c/o new antenna -
15/10/21	Unscheduled Maintenance	11205.00	MAY, Rodney	Track boxer to w/shop. Blow out radiator track machine to wash pad. Wash out radiator / engine bay and machine. Track back to w/shop reseal leak on relief valve and clean for pressures / spreads.-
19/09/21	Unscheduled Maintenance	11057.00	MAY, Rodney	Blow out radiator-
17/09/21	Unscheduled Maintenance	11057.00	MAY, Rodney	Blade tilt fault, pull floor locate damaged harness cut back/ repair re - rum. Remove and replace joy stick trigger switch. Pull out of 327 joystick.-
13/09/21	Unscheduled Maintenance	11057.00	MAY, Rodney	A/C cutting in and out timer U/S-
12/09/21	Service		MAY, Rodney	1000 hours service and defects.-
04/09/21	Unscheduled Maintenance	10985.00	MAY, Rodney	Overheating. Check all levels blow out radiator. Remove 3rd gear. Clutch temps with ET. Change for control so fan runs all the time. Dig out track rollers-
28/08/21	Unscheduled Maintenance		MAY, Rodney	Refit ripper hose-
27/08/21	Unscheduled Maintenance		MAY, Rodney	Blown hyd line hyd pump to rear control vlave.-
27/08/21	Unscheduled Maintenance		MAY, Rodney	Blown hyd line hyd pump to rear control valve.-
12/08/21	Unscheduled Maintenance	10988.00	MAY, Rodney	A/C not cold - clean filters. -
11/08/21	Unscheduled Maintenance	10788.00	MAY, Rodney	LH door not closing c/o door latch. -
07/08/21	Unscheduled Maintenance	10727.00	MAY, Rodney	Refit new hose, refit guards, top up oils. -
06/08/21	Unscheduled Maintenance	10727.00	MAY, Rodney	Blown hose diagnose & remove. -
30/07/21	Unscheduled Maintenance	10725.00	MAY, Rodney	A/C not cold filters blocked -
30/07/21	Unscheduled Maintenance	10725.00	MAY, Rodney	A/C not cold, filters blocked.-
22/07/21	Unscheduled Maintenance	10715.00	MAY, Rodney	Paperwork & Passout-
20/07/21	Unscheduled Maintenance	10715.00	MAY, Rodney	Make up new call sign for roof, install & wire in, fit new aerials for mine & UHF radios. -
19/07/21	Unscheduled Maintenance		MAY, Rodney	Site pass out. -
18/07/21	Unscheduled Maintenance		MAY, Rodney	Check over and fit rops. -
18/07/21	Unscheduled Maintenance		MAY, Rodney	Site pass out. -
02/10/20	Unscheduled Maintenance	10473.00	MAY, Rodney	Washed, cable tied up - loose wiring.-
01/10/20	Unscheduled Maintenance	10473.00	MAY, Rodney	Removed GPS -
12/08/20	Service	10473.00	FLESSER, Keith	Carry out 500hr service as per service sheet.
12/08/20	Service	10473.00	FLESSER, Keith	Carry out 500hr service as per service sheet.
10/08/20	Unscheduled Maintenance	10143.00	MAY, Rodney	Diagnosed GPS not working. -
23/06/20	Unscheduled Maintenance	10143.00	MAY, Rodney	Test dozer. Clean, refit all guards. -
22/06/20	Unscheduled Maintenance	10143.00	MAY, Rodney	Fit belly guard, test and run up. Clean up area. -
21/06/20	Unscheduled Maintenance	10143.00	MAY, Rodney	Replace all tilt hoses and fan hose. Fill oils, test ok. -
20/06/20	Unscheduled Maintenance	10143.00	MAY, Rodney	Change out hoses, reseal leaks. -
19/06/20	Unscheduled Maintenance	10143.00	MAY, Rodney	Fit new rear main, refit converter, c/o engine mounts. -
18/06/20	Unscheduled Maintenance	10143.00	MAY, Rodney	Replace hoses, reseal control valve leaks. -
17/06/20	Unscheduled Maintenance	10143.00	MAY, Rodney	C/o Hose repairs, fan hoses. -
16/06/20	Unscheduled Maintenance	10143.00	MAY, Rodney	Wash, remove belly guards, remove converter, flywheel, no seal in parts. -
31/05/20	Service	10002.00	FLESSER, Keith	Carry out 1000hr service as per service sheet

26/04/20	Unscheduled Maintenance	9494.00	MAY, Rodney	Carry out service and defect repairs. -
23/03/20	Service	9494.00	MAY, Rodney	Client service - 500hr service
03/02/20	Service	9250.00	MAY, Rodney	250hr service - client
19/12/19	Service	9008.20	MAY, Rodney	1000hr client service
24/09/19	Unscheduled Maintenance	8428.00	MAY, Rodney	Remove ROPS & stacks, clean machine. Remove section of rails and walk way on LHS, remove broken bolts and refit walkway. Escort float to machine & rops, escort off site. -
19/09/18	Unscheduled Maintenance	5468.00	MAY, Rodney	Escort and assist for GPS installation. -
13/09/18	Service	5468.00	MAY, Rodney	Change RH lift cylinder and check over and service-
5/08/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Assemble steering & clutch & brake assembly. -
2/08/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Dismantle steering & brake assembly, clean and begin to reassemble. -
31/07/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Assemble eq bar.-
29/07/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Equalizer bar repairs & clean.-
26/07/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Equalizer bar strip, source parts. -
12/03/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Escort onto M/S , Escort float to reject circuit. Observe machine working. -
11/03/18	Unscheduled Maintenance		MAY, Rodney	Top up transmission oil level, c/o TC inlet pressure checks. 7.3.19 T/C outlet relief - check transmission relief pressure, tem gun to read transmission cooler inlet and outlet temps. machine was tagged out of service due to LHR rocker cover leaking and oil coming from the belly guard. Oil leaks to investigate. 8.3.19 Rocker Repairs. replace rocker cover gasket and 2 replacement bolts, 9.3.19 Resealed several pilot lines on to of implement control valve, Ran up machine and found another leak from transmission priority valve on bevel gear housing. removed trans pump, priority valve pipe ready for reseal. 11.3.19 Refit trans pump pipe, priority valve pipe with new seals. Run up and test, refit floor. Reported oil leaks had been repaired and TC pressures adjusted.
5/03/18	Unscheduled Maintenance		MAY, Rodney	Overheating fault-
20/02/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Check over Dozer, Pressure switch on pump disconnected - Disconnect pump solenoid. -
09/12/18	Unscheduled Maintenance	6849.00	MAY, Rodney	Repairs from bolt falling out of bonnet -
23/10/18	Unscheduled Maintenance	5872.00	MAY, Rodney	Change out RH final and scab. -
10/10/18	Unscheduled Maintenance		MAY, Rodney	Arrange final drive replacement load final onto trailer. -
22/08/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Strip equalizer bar and clean fit new bearings and seals. Strip equalizer bar and clean fit new bearings and seals.
03/07/18	Unscheduled Maintenance	4192.00	MAY, Rodney	Disassemble bulldozer valve inspection reseal, reassemble fill hydraulic tank with new oil, operator machine to ensure no faults. replace two pilot lines on dozer valve.
02/07/18	Unscheduled Maintenance	4190.00	MAY, Rodney	Set implement hydraulic pressures
26/06/18	Unscheduled Maintenance	4170.00	MAY, Rodney	Repair electrical faults
24/06/18	Unscheduled Maintenance	4137.00	MAY, Rodney	repair blade lifting fault
21/06/18	Unscheduled Maintenance	4092.00	MAY, Rodney	Replace starter motor
20/06/18	Unscheduled Maintenance	4092.00	MAY, Rodney	Diagnose starting fault
14/06/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Install mine radio, top up oils, operate and check over. Clean machine and bet pass out for site.
13/06/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Replace fan motor (engine) fit blade and rops
12/06/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Assemble machine
07/06/18	Unscheduled Maintenance		MAY, Rodney	Unload blade
06/06/18	Unscheduled Maintenance		MAY, Rodney	unload machine
05/06/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Finish off fitting light package to machine.
04/06/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Fit out machine with light package
31/05/18	Service	4065.70	MAY, Rodney	1000 hr service
31/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Finish off job list, mount triangle. Floor mat, light switches, fire extinguishers, machine inspection, photos.
31/05/18	Plant Inspection	4065.70	MAY, Rodney	Plant Inspection
28/05/18	Unscheduled Maintenance		MAY, Rodney	
23/05/18	Unscheduled Maintenance		MAY, Rodney	Clean up drive final parts- strip S cab, clean up parts, assemble final drive.
21/05/18	Unscheduled Maintenance		MAY, Rodney	Bolt down walkway mesh, fabricate steel walkway. remove and repair Rh and rail - refit hand rail, straighten panels, mount fire extinguisher bracket. Prep machine for paint.
19/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Fit E stops, repair damaged wiring in cab,
18/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Fit hyd lines, reseal output shaft of fuse pump. tidy up fire sup wiring. Remove lights, fit belly guard.
18/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	fabricate fold away step cut out walkway mesh for plate form
16/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	remove RH side window assembly. Dismantle frame. Remove old sikaflex - clean frame, sikaflex in new widow - fit new rubbers to window frame, install window to machine. Work through job list.
15/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Electrical faults and gear faults
15/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Finish off making and installing grease lines for ripper assembly. Fit grease line covers.
15/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Top up oils , clean track joints
14/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Prep machine and track assembly to be installed.
14/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Button up RH track frame, change wiring ripper control hose, fit clamps on ripper hoses, repair fault codes, Change u/s washer motor, Repair U/s washer hoses, Fix wipers.Fit LH tank frame, run up machine, top up oils,fix axels/calibrate transm. Rectify blades lift fault, fit tracks. Fit tracks, Reseal leaking hoses, fix holes, fit missing panels & bolts, change U/s A/C delay. Service A/C system. reove hood line, remove excess wiring, wire up fire supp. repair l/harness.
11/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Make and fit grease line to ripper box, turn right hand ripper tilt rod 180 degrees.
10/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Grease lines - fit RH track assembly to machine
09/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Carry out work on job list, assist with install of lift cylinders, retap grease bicoke on ripper frame - start to install grease lines, Fit track frames.
08/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Fit blade lift cyl
04/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Install seals in ripper cylinder, fit ripper frame and cylinders - fit rippers c x 2
04/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Assemble rippers
03/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	remove seals and bearings fan. Ripper tilt cylinder and replace-fit ripper lift cylinder bearings. Clean up and fit ripper bearings. Remove and fit seals in l/frame.
02/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Ripper frame repairs, cylinder rekit and bushes
01/05/18	Unscheduled Maintenance	4065.00	MAY, Rodney	kit cylinders, cylinder and ripper frame bushes
30/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Cylinders - seals - bushes - strip seal- Hox leaks, engine bay
30/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Reseal torque converter outlet valve, Relief valve - fit hyd hoses - reroute rubbing hoses. 1.5.18 Fit hyd hoses. Fit dozer relief valve. 2.5.18 Check over A/C system. Wash out water core, pressure test A/C. Check active logged faults. Diagnose brake fault.
28/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Fit trans and diff & trans pump & seal valve, reseal torque converter and put shaft.
26/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Electrical repairs
26/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Clean and inspect trans pump, assemble trans pump, remove seal valve.
26/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Repair from check list, install of bearing in hitch
24/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	remove torque connector outlet drive shaft yoke and seal carrier. Replace seal and prep for install.
23/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Sort out parts and replace equalizer b and seals
23/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Battery box repairs, panel repairs
23/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Remove old c clamps from bent steel pipe, machine out pipe from inside c clamps, sweat clamps to new steel pipe x 3
22/04/18	Tracks and Rims	4065.00	MAY, Rodney	Bring up spare ripper frame, clean u and inspect, measure pin holes, gauge off plates and side of machine. remove LH fire suppression unit (LHS)
22/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Assemble trans pump , assemble diff, assemble seal valve.
20/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Electrical repairs
20/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Weld cannon locating luq to track frame. Repairs to bucket. gauge out crack and reweld. Inspect ripper frame, measure holes, install bearings.
20/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Assemble diff - Strip t/pump
20/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Cannon assy, Install track adjuster assy into cannon assy. Install cannon guides an caps, istall pivot shaft seal. Install carrier rollers frames to both track frames and tightened bolts.
19/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Remove pivot shaft seal from carrier - install new seal, make tilt frame track. rolled over and positioned front LH cannon assembly, ready to install. Rh frame assembly: install pins and rollers. Install c/bearings & seal retainer. Pre LH c/assy for install and R track adjuster assy. Install LH carrier assy into LH rear track frame. Tensioned idler out on LH track frame.
19/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Electrical repairs
19/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Install bogie pins on Rh ad LH cannon assembly, install rollers and idlers , torque bolts. Install bogie pins Lh track frame.
18/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Moved RH track frame into position. Removed all major assemblies. Wire welded. Rust & paint preps. tap out holes on track frame. Re assemble track frame. remove pivot shaft seal from frame.
18/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Clean up track frame to install bogie pins. Install bogie pin and remove cannon seal and bearing RH track frame. Install rollers and idlers torque bolts.
18/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Assemble t and diff.
18/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	worked on segments and ripper frame. hosing an leak repairs, wiring. electrical repairs, air conditioner , front nose cone harness
17/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Assemble transmission
17/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Disassemble and clean out track and inspect for damages/wear - Linked adjuster rod cylinder, still has hole mark on it & is acceptable. Install new inner and outer wear bushings & Installed new cup seal. Assemble adjuster assembly.
17/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Track frame repairs. Cylinder repairs. Part Service. repairs, fit new isolators.
16/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	remove bogie pins LH and Rh track frame
16/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	remove ripper bed, drain trans oil and final drive oil.
16/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Fit jump start receptacle, secure vacume gauge
16/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Clean trans parts -order parts for machine
13/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Track frame dismantle
13/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Disassemble transmission, assemble planetarys.
13/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Segments, transmission, ripper frame
13/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Cylinder reseals

13/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Gauge out bogie pins, remove circlips & pin plugs.
12/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	remove transmission -dismantle, segment, clean ripper frame
12/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Check pivot shaft movement , check ripper pin movement. Remove axels, Remove transmission, strip transmission.
12/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Dismantle track frame - replace major and minor bogie pins.
12/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Assist with removal of cylinders and strip
11/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Buff frame, repairs, segments, transmission
11/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Remove drive shaft / Aux shaft. Remove back covers/eq bar, U/S seal, check bearings.
09/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Remove Ripper boots
07/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Remove ripper valve
06/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Remove track frame. Run machine and check leaks Run ripper cylinder. remove ripper frame.
05/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Modify stands to suit D10, jack machine , remove belly guards. Reseal blade lift cylinder.
05/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Disassemble and order parts
04/04/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Disassemble machine
01/03/18	Tracks and Rims	4065.00	MAY, Rodney	Check final drives
28/02/18	Unscheduled Maintenance	4065.00	MAY, Rodney	repairs
26/02/18	Unscheduled Maintenance	4065.00	MAY, Rodney	Inspect machine- parts listing

Hastings Deering CAT Full History

Equipment Details Actual PPM/Phr Adjust For Fluid Added

Model Unit No Compartment SN

Serial No Compartment Sample Point

Start Date End Date

Show Equipment Details Show All Component Events Show Baselines Highlight Fluid Changes Component Information Disable Hover

Lab No	Label	Sample Site	Event Type	Event Date	Meter Read	Equip LTD	CMU Hrs	Fluid Hrs	Cum. Total	Calc. Fluid Hours	Fluid Add	Fluid Chg	Filter Chg	Oil Type	Oil Grade	Resample	Eval	Elemental Analysis																FTIR Analysis											
																		Cu	Fe	Cr	Pb	Al	Si	Sn	Ni	Na	K	Mo	Ca	Mg	P	Zn	Ti	Sb	V	B	S	Ag	Mn	Cd	Ba	UST	UOXI	USUL	UNIT
18065317		STANWELL	Sample	27 Oct 2022	12503	12503	12503	269	0.00	269		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	3	22	<1	<1	<1	3	<1	2	1	<1	48	1557	334	863	990	<1	<1	<1	59	2870	<1	<1	<1	<1	45	14	23	7
17799921		STANWELL	Sample	25 Aug 2022	12234	12234	12234	489	0.00	489		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	2	29	<1	<1	3	7	<1	2	<1	<1	27	1410	339	819	972	<1	<1	<1	35	3518	<1	<1	<1	<1	38	12	21	7
17578730		STANWELL	Sample	08 Jul 2022	11987	11987	11987		0.00	242				SHELL RIMULA R4 MV	15W40	N	B	2	21	<1	<1	<1	4	<1	1	2	3	<1	2296	11	851	939	<1	<1	<1	3		<1	<1	<1	<1	31	10	20	8
17272708		OCC	Sample	19 Apr 2022	11745	11745	11745	250	0.00	246		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	2	23	<1	<1	<1	3	<1	1	2	3	<1	2124	9	741	851	<1	<1	<1	2	2714	<1	<1	<1	<1	40	9	18	7
17106532		HAIL CREEK	Sample	02 Mar 2022	11499	11499	11499	250	0.00	757	0.00	Y	Y	SHELL RIMULA R4 MV	15W40	N	A	1	16	<1	<1	1	3	<1	1	2	2	<1	2070	10	760	876	<1	<1	<1	3	3037	<1	<1	<1	<1	32	9	17	7
16351820		OCC	Sample	01 Aug 2021	10742	10742	10742	250	0.00	31		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	<1	19	<1	<1	2	6	<1	<1	1	<1	51	1644	336	930	1102	<1	<1	<1	104	1648	<1	<1	<1	<1	5	14	21	5
15258607	BC3704048 - HD02529156	HAIL CREEK	Sample	16 Sep 2020	10711	10711	10711	238	0.00	238		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	3	25	1	1	4	11	<1	2	3	3	55	1635	351	913	1061	<1	<1	<1	75		<1	<1	<1	<1	28	15	24	7
15097031	BC3657171 - HD02579476	HAIL CREEK	Sample	12 Aug 2020	10473	10473	10473	225	0.00	225		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	1	16	<1	<1	2	3	<1	2	2	1	53	1566	334	913	1048	<1	<1	<1	72		<1	<1	<1	<1	27	15	22	7
15000203	BC3616192 - HD02933654	HAIL CREEK	Sample	08 Jul 2020	10248	10248	10248	246	0.00	246		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	<1	5	<1	<1	<1	2	<1	1	1	<1	52	1635	345	907	1045	<1	<1	<1	91	4244	<1	<1	<1	<1	9	14	21	6
14871012	BC3573192 - HD02663656	HAIL CREEK	Sample	31 May 2020	10002	10002	10002	236	0.00	236		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	1	22	<1	<1	<1	3	<1	3	2	1	50	1772	319	939	1078	<1	<1	<1	66	2057	<1	<1	<1	<1	32	13	21	7
14735221	BC3528485 - HD02779853	HAIL CREEK	Sample	29 Apr 2020	9766	9766	9766	272	0.00	272		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	2	31	<1	<1	1	3	<1	2	1	<1	42	1735	279	875	1043	<1	<1	<1	51		<1	<1	<1	<1	48	15	23	8
14613136	BC3486009 - HD02309469	HAIL CREEK	Sample	23 Mar 2020	9494	9494	9494	244	0.00	244		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	1	25	1	<1	<1	4	<1	3	2	1	31	1970	202	849	1045	<1	<1	<1	40		<1	<1	<1	<1	36	12	21	7
14468701	BC3436371 - HD02547867	HAIL CREEK	Sample	10 Feb 2020	9303	9303	9303	53	0.00	53		N	Y	SHELL RIMULA R4 MV	15W40	Y	A	<1	8	<1	<1	<1	3	<1	1	2	1	29	1963	196	898	1042	<1	<1	<1	53	4294	<1	<1	<1	<1	11	12	20	6
14453601	BC3428792 - HD02926255	HAIL CREEK	Sample	04 Feb 2020	9250	9250	9250	242	0.00	242		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	1	51	1	<1	2	7	<1	3	2	1	35	1999	227	902	1076	<1	<1	<1	36	4263	<1	<1	<1	<1	42	13	22	8
14360119		HAIL CREEK	Sample	19 Dec 2019	9008	9008	9008	310	0.00	310	0.00	Y	Y	SHELL RIMULA R4 MV	15W40	N	A	2	41	<1	<1	1	5	<1	2	1	<1	43	1840	290	888	1050	<1	<1	<1	42		<1	<1	<1	<1	53	14	22	8
14144007			Sample	04 Nov 2019	8698	8698	8698	274	0.00	274		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	2	31	<1	<1	<1	11	<1	3	2	<1	56	1674	334	908	1081	<1	<1	<1	61	4003	<1	<1	<1	<1	43	15	23	8
13918205	BC3246416 - HD02623875	MIDDLEMOUNT STH FOXLEIGH	Sample	01 Sep 2019	8424	8424	8424	194	0.00	194		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	1	16	<1	<1	2	20	<1	3	1	<1	55	1672	373	946	1102	<1	<1	<1	78	4061	<1	<1	<1	<1	24	14	20	6
13773810	BC3197421 - HD02589472	LIEBHERR	Sample	20 Jul 2019	8230	8230	8230	281	0.00	281		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	2	22	<1	<1	1	5	<1	2	1	<1	57	1667	364	910	1129	<1	<1	<1	66	3970	<1	<1	<1	<1	27	13	19	6
13696406	BC3173706 - HD02347222	FOXLEIGH	Sample	28 Jun 2019	7949	7949	7949	268	0.00	268		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	1	14	<1	<1	<1	5	<1	2	1	<1	56	1674	363	931	1124	<1	<1	<1	78	3911	<1	<1	<1	<1	23	15	21	7
13593202	BC3133079 - HD02582900	MIDDLEMOUNT	Sample	25 May 2019	7681	7681	7681	252	0.00	252		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	1	22	<1	<1	<1	4	<1	2	2	<1	55	1599	351	888	1045	<1	<1	<1	63		<1	<1	<1	<1	28	13	20	6
13523130	BC3113454 - HD02585746	MIDDLEMOUNT	Sample	09 May 2019	7429	7429	7429	302	0.00	29		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	<1	6	<1	<1	<1	3	<1	<1	2	<1	56	1672	373	962	1083	<1	<1	<1	97		<1	<1	<1	<1	6	14	22	5
13512612	BC3111268 - HD02258328	MIDDLEMOUNT	Sample	08 May 2019	7400	7400	7400	273	0.00	273		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	1	26	1	<1	2	6	<1	2	1	<1	57	1674	365	908	1118	<1	<1	<1	66	3681	<1	<1	<1	<1	38	16	23	7
13439213	BC3083394 - HD02829175	MIDDLEMOUNT	Sample	11 Apr 2019	7127	7127	7127	595	0.00	595		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	<1	33	<1	<1	2	6	<1	1	1	<1	56	1681	369	961	1125	<1	<1	<1	73	4677	<1	<1	<1	<1	28	14	21	6
13375230	BC3066055 - HD02515816	MIDDLEMOUNT	Sample	26 Mar 2019	6880	6880	6880	348	0.00	348		N	N	SHELL RIMULA R4 MV	15W40	N	A	2	37	1	<1	1	12	<1	2	2	<1	56	1554	361	860	1028	<1	<1	<1	53	4058	<1	<1	<1	<1	51	15	22	8
13180837	BC3002054 - HD02917527	MIDDLEMOUNT	Sample	25 Jan 2019	6532	6532	6532	219	0.00	219		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	2	26	1	<1	<1	12	<1	2	<1	<1	58	1607	348	842	1040	<1	<1	<1	66		<1	<1	<1	<1	40	15	22	7
12987622	BC2938583 - HD02247726	MIDDLEMOUNT	Sample	24 Nov 2018	6313	6313	6313	254	0.00	254		Y	Y	SHELL RIMULA R4 MV	15W40	N	B	1	19	<1	<1	1	21	<1	1	2	<1	56	1636	350	894	1079	<1	<1	<1	72	2887	<1	<1	<1	<1	36	15	22	7
12922315	BC2917092 - HD02616799	MIDDLEMOUNT	Sample	05 Nov 2018	6059	6059	6059	250	0.00	250		Y	Y	SHELL RIMULA R4 MV	15W40	N	A	2	24	<1	<1	1	7	<1	1	<1	<1	58	1683	373	961	1089	<1	<1	<1	74	5284	<1	<1	<1	<1	34	14	22	7
12858218	BC2894671 - HD02202642	MIDDLEMOUNT	Sample	14 Oct 2018	5809	5809	5809	240	0.00	240		Y	Y	SHELL RIMULA R4 MV																															