



Worthy Parts

KTA50 Inspection and Rebuild

F.26.0280 Inspection and Rebuild Report

22nd January 2026

Author:

Cameron Abbott

Kalgoorlie
Power GroupTM

Worthy Parts
8 Craig Road
Yilkari 6430
Australia

Attention: Michael Worthington

Dear Michael,

Please find inspection and rebuild report F.26.0280 below regarding the inspection and rebuild of 1 Cummins KTA50 Diesel engine in Coolgardie, WA on Saturday 17th January 2026.

Scope:

Carry out an inspection and condition assessment of 1 x KTA50 diesel engine. Complete various repairs and components replacements in preparation for sale of the equipment.

Summary:

A thorough inspection of the KTA50 was carried out. The engine was found in serviceable condition. Critical parts were inspected with no faults found. Various seals were replaced as part of preventative maintenance. Various gasket leaks were rectified. Valve heights were measured and recorded, and all found within serviceable limits.

Recommendations:

- Continue servicing in line with manufacturer's recommendations and hours.
- Continue monitoring valve recession.

COMPANY	Worthy Parts
ASSET	-
MODEL	KTA50
ESN	33131160
ENGINE HOURS	
DATE	17 th January 2026
TECHNICIAN	C.Abbott, B Ferrier

SCOPE:

Carry out an inspection and condition assessment of 1 x KTA50 diesel engine. Complete various repairs and components replacements in preparation for sale of the equipment.

WORK CARRIED OUT:**Rocker Gear**

Removed rocker covers, rocker gear and injectors. Carried out borescope inspection of cylinder liners, pistons and valves. All components found in serviceable condition. Cylinder liners are showing signs of wear; however, evident cross hatching and low signs of scoring indicate serviceability.

Rocker levers disassembled, cleaned and inspected. Rocker shafts show signs of wear in line with the age of the engine; however, all items remain serviceable. Injectors were cleaned, inspected and reinstalled with new O-rings and tip seals.

RB7 & RB8

A new cylinder liner was installed to position RB8 due to previously being removed for spare parts. Pistons and connecting rods were installed into positions RB7 and RB8. Cylinder heads installed to positions RB7 and RB8. Rocker boxes, rocker gear and injectors installed. Installed parts taken from site spares. New connecting rod bearings (upper and lower) installed in positions RB7 and RB8.

Valve & Injector Set

Carried out valve clearance and injector preload adjustments, in line with manufactures specifications. Measured and recorded cylinder head valve heights. Records attached. All components torqued to specification. Rocker covers and RB2 intake manifold installed.

Turbochargers

Inspected turbocharger compressor and turbine. Compressor and turbine found in good condition. Shaft play is minimal with no signs of shaft seal oil leaks.

Crankshaft Seals

Removed viscous dampeners and crankshaft adaptor. Removed and replace front main oil seal. Removed alternator and flywheel. Removed and replace rear main oil seal.

Conrod Bearings

Removed crankcase handhole covers. Removed and inspected 4 x piston connecting rod bearings. All bearings found in fair, serviceable condition in line with the age of the engine. Photographs included within.

Lube Oil

Engine's lubricating oil system was flushed and primed with new oil. Existing oil filters were removed and replaced.

Fuel System

Fuel filter manifold removed and cleaned. New fuel filters installed and fuel system primed.

Accessory Drive

Accessory drive pulley seal was found leaking. Seal has been removed and replaced. New alternator drive belt installed and tensioned.

Engine Run Up

Carried out oil pre-lubrication and fuel system priming. Engine was cranked and oil pressure confirmed. Engine was started and run at 500rpm. Oil pressure confirmed at 560kPa @ 35°C oil temperature. Engine monitored for faults and unusual running condition, no faults found.

Engine has been drained of run up water. Engine taped and prepared for transport.

Valve Height Measurements

Position	LB - Exhaust	LB - Exhaust	LB - Intake	LB - Intake
1	67.85	67.67	67.95	67.87
2	67.60	67.45	68.05	67.89
3	67.72	67.89	67.44	67.74
4	68.18	68.36	67.58	67.70
5	67.99	67.59	67.38	67.38
6	68.64	68.52	69.09	68.68
7	68.38	68.34	67.98	69.14
8	68.30	68.44	68.01	67.95

Position	RB - Exhaust	RB - Exhaust	RB - Intake	RB - Intake
1	67.76	67.55	67.22	67.63
2	67.79	67.51	68.02	68.06
3	67.90	67.88	67.62	67.26
4	68.58	68.53	68.61	68.69
5	68.31	68.51	67.55	67.84
6	67.41	67.62	67.48	67.45
7	67.60	67.74	67.70	67.65
8	67.58	67.64	67.72	67.70