ENGINE TUNING DATA

Туре	V8 Cylinder	
Firing order	18436572	
Cylinder Numbers—Left bank Right bank		
No 1 Cylinder location	Pulley end of left bank	
Timing marks	On crankshaft vibration damper	
Snark place		
Spark plugs Maka / tume		
Make/type Gap	Champion N9YC 0.70–0.80 mm (0.030–0.032 in)	
Ignition module		
Make/type	Lucas 2CE 12 volt electronic	
Distributor		
Make/type	Lucas 25DM8 electronia	
Air gap	Lucas 35DM8 electronic 0.20–0.35 mm (0.008–0.014 in)	
FUEL INJECTION MODELS		
Engine	V8 Cylinder	
Compression ratio	9.35:1 and 8.13:1	
Fuel injection system	Lucas 'L' system electronically controlled	
Valve Timing	Inlet	Fyhanet
Valve Timing Opens	Inlet 24° BTDC	Exhaust
Opens	24° BTDC	62° BBDC
Opens		62° BBDC 14° ATDC
Opens	24° BTDC 52° ABDC	62° BBDC
Opens Closes Duration	24° BTDC 52° ABDC 256°	62° BBDC 14° ATDC 256°
Opens Closes Duration Valve peak	24° BTDC 52° ABDC 256° 104° ATDC	62° BBDC 14° ATDC 256°
Opens Closes Duration Valve peak Idle Speed	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min	62° BBDC 14° ATDC 256°
Opens Closes Duration Valve peak Idle Speed Ignition Timing at	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min	62° BBDC 14° ATDC 256°
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min	62° BBDC 14° ATDC 256°
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing Dynamic or static	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1°	62° BBDC 14° ATDC 256°
Opens	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max	62° BBDC 14° ATDC 256°
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing Dynamic or static Exhaust Gas CO content at idle	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic	62° BBDC 14° ATDC 256°
Opens	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic Clockwise	62° BBDC 14° ATDC 256° 114° BTDC
Opens Closes Duration Valve peak Idle Speed Idle Speed Ignition Timing at Ignition Timing Dynamic or static Exhaust Gas CO content at idle Distributor Make/type Rotation Make/type	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic	62° BBDC 14° ATDC 256° 114° BTDC
Opens Closes Duration Valve peak Idle Speed Idle Speed Ignition Timing at Ignition Timing Dynamic or static Dynamic or static Exhaust Gas CO content at idle Distributor Make/type Rotation Air gap Serial number	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014	62° BBDC 14° ATDC 256° 114° BTDC
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing Dynamic or static Exhaust Gas CO content at idle Distributor Make/type Rotation Air gap Air gap	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014	62° BBDC 14° ATDC 256° 114° BTDC
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing Dynamic or static Exhaust Gas CO content at idle Distributor Make/type Rotation Air gap Serial number Centrifugal Advance Centrifugal Advance	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014	62° BBDC 14° ATDC 256° 114° BTDC in)
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing Dynamic or static Exhaust Gas CO content at idle Distributor Make/type Rotation Air gap Serial number Centrifugal Advance Decelerating check—vacuum pipe disconnected	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014 42608 Distributor advance 12° to 14	62° BBDC 14° ATDC 256° 114° BTDC in)
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing Dynamic or static Exhaust Gas CO content at idle Distributor Make/type Rotation Air gap Serial number Centrifugal Advance Decelerating check—vacuum pipe disconnected Distributor decelerating speeds—1600 1600	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014 42608 Distributor advance 12° to 14	62° BBDC 14° ATDC 256° 114° BTDC in)
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing Dynamic or static Exhaust Gas CO content at idle Distributor Make/type Rotation Air gap Serial number Centrifugal Advance Decelerating check—vacuum pipe disconnected Distributor decelerating speeds—1600 1100	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014 42608 Distributor advance 12° to 14 9° 30' to	62° BBDC 14° ATDC 256° 114° BTDC in)
Opens Closes Duration Valve peak Idle Speed Ignition Timing at Ignition Timing Dynamic or static Exhaust Gas CO content at idle Distributor Make/type Rotation Air gap Serial number Centrifugal Advance Decelerating check—vacuum pipe disconnected Distributor decelerating speeds—1600 1100	24° BTDC 52° ABDC 256° 104° ATDC 700 to 800 rev/min 600 rev/min TDC ± 1° 0.5–1.0% max Lucas 35 DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014 42608 Distributor advance 12° to 14 9° 30' t 1° 30' t	62° BBDC 14° ATDC 256° 114° BTDC in)

EUROPE—Emission Controlled

CARBURETTER MODELS

Engine	V8 Cylinder	
Compression ratio	9.35:1	
Valve timing Opens Closes Duration Valve peak	Inlet 36° BTDC 64° ABDC 280° 99° ATDC	Exhaust 74° BBDC 26° ATDC 280° 119° BTDC
Carburetters Type Solex specification number Needle Idle speed (engine hot) Fast idle speed (engine hot) Mixture setting—CO at idle	2 × Solex 175 CDSE 4187 B1GG 650–750 rev/min 1050–1150 rev/min 0.5%–2.5% pulsair connect	ed
Ignition Distributor make/type Direction of rotation Air gap Distributor serial number	Lucas 35DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014 in) 41980	
Centrifugal advance Decelerating check with vacuum pipe disconnected Distributor decelerating speeds—2800 1750 1000	Distributor advance 5° 30' to 9° 6° 30' to 9° 2° 30' to 4° 30' 250 rev/min	
Ignition timing Dynamic or static	6° BTDC at 650–750 rev/ disconnected)	min (vacuum pip c
Fuel	96 octane	

GULF STATES—Emission Controlled

CARBURETTER MODELS

Engine	V8 Cylinder	
Compression ratio	8.13:1	
Valve timing	Inlet	Exhaust
Opens	30° BTDC	68° BBDC
Closes	75° ABDC	37° ATDC
Duration	285°	285°
Valve peak	106° ATDC	112° BTDC
Carburetters		
Туре	2 × Solex 175 CDSE	
Solex specification number	4186	
Needle	BIFC	
Idle speed (engine hot)	650–750 rev/min	
Fast idle speed (engine hot)	1050–1150 rev/min	
Mixture setting—CO at idle	1.5%–3.5% pulsair connected	
Ignition		
Distributor make/type	Lucas 35DM8 electronic	
Direction of rotation	Clockwise	
Air gap	0.20-0.35 mm (0.008-0.014 in)	
Distributor serial number	42609	
Centrifugal advance	Vacuum pipe disconnected	
Distributor decelerating speeds-2300	Distributor advance 10° 30' to 13° 30'	
1800	8° to 10°	
1200		to 5° 30'
No advance below	450 rev/min	
Ignition timing		
Dynamic or static	6° BTDC at 600 rev/min (va	acuum pipe disconnected)
Fuel	90-93 octane	

REST OF THE WORLD—Non Emission

CARBURETTER MODELS

Engine	V8 Cylinder	
Compression ratio	8.13:1	
Valve timing Opens Closes Duration Valve peak	Inlet 30° BTDC 75° ABDC 285° 106° ATDC	Exhaust 68° BBDC 37° ATDC 285° 112° BTDC
Carburetters Type Solex specification number Needle Idle speed (engine hot) Fast idle speed (engine hot)	2 × Solex 175 CD3 4185 B1FF 550—650 rev/min 1050—1150 rev/min	
Ignition Distributor make/type Direction of rotation Air gap Distributor serial number	Lucas 35DM8 electronic Clockwise 0.20–0.35 mm (0.008–0.014 in) 41981	
Centrifugal advance Distributor decelerating speeds—2100 1500 1000 No advance below	Vacuum pipe disconnected Distributor advance 11° 30' to 13° 30' 8° to 10° 4° to 6° 450 rev/min	
Ignition timing Dynamic or static	6° BTDC at 650–750 rev/min (vacuum pipe disconnected)	
Fuel	90–93 octane	