

304179

TABLE 9-2

SUMMARY OF WHOLE OIL ANALYSIS

Date: 1986

Company: AMOCO AUSTRALIA

Sample: YOLLA 1, 2809-2824.5m DST 1

PHYSICAL PROPERTY DATA

API Gravity nd	%Sulphur (w/w) nd	Viscosity (25°C) nd	Viscosity (60°C) nd	Pour Pt (°C) nd
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COMPOSITION BY CARBON NUMBER

Carbon Number	Rel. Wt %
1 - 3	0.35
4	1.53
5	3.49
6	8.92
7	16.99
8	18.70
9	11.48
10	6.88
11	5.95
12	5.90
13	4.55
14	4.59
15	3.34
16	1.96
17	1.81
18	0.82
19	0.64
20	0.51
21	0.38
22	0.32
23	0.24
24	0.19
25	0.15
26	0.11
27	0.09
28	0.05
29	0.04
30	0.02
31	0.01

COMPOSITION OF C4-C7 FRACTION

Compound	Rel. Wt %
A isobutane	1.22
B n-butane	3.71
C isopentane	4.40
D n-pentane	6.11
E 2,2-dimethylbutane	0.20
F cyclopentane	0.78
G 2,3-dimethylbutane	0.72
H 2-methylpentane	3.86
I 3-methylpentane	2.21
J n-hexane	7.88
K methylcyclopentane	4.64
L 2,4-dimethylpentane	0.43
M benzene	2.80
N cyclohexane	6.54
O 1,1-dimethylcyclopentane	0.66
P 2-methylhexane	2.42
Q 3-methylhexane	3.44
R 1 cis-3-dimethylcyclopentane	1.13
S 1 trans-3-dimethylcyclopentane	1.76
T 1 trans-2-dimethylcyclopentane	0.14
U n-heptane	9.19
V methylcyclohexane	20.22
W 1 cis-2-dimethylcyclopentane	0.45
X toluene	15.08

CALCULATED DATA - C12+ FRACTION

Pristane/Phytane	9.14
Pristane/n-C17	0.71
Phytane/n-C18	0.10
TMTD/Pristane	0.92
(C21+C22) / (C28+C29)	7.69

CALCULATED DATA - C4-C7 FRACTION

Paraffin Index I	1.93
Paraffin Index II	20.19
N/K (Maturity)	1.41
C/D (Maturity)	0.72
J/K (Maturity)	1.70
I/M (Water washing)	0.79
I/J (Biodegradation)	0.28

nd = no data
TMTD = Trimethyltridecane
is = Insufficient sample

Paraffin Index I = (P+Q)/(R+S+T)
Paraffin Index II = %U in all compounds N-V
bdl = Below detection limit