

**OIL REFINERIES LIMITED CERTIFICATE OF QUALITY**

<u>TEST</u>	<u>AUTOMOTIVE DIESEL OIL</u>	<u>LIMITS</u>			<u>RESULTS</u>			<u>METHOD</u>		
		<u>Low</u>	<u>High</u>							
DENSITY AT 15 DEG C	KG/M3	820.0	845.0		ASTM	D 4052	DS11	00	CI01	00
CETANE NUMBER		51.0		57.2	ASTM	D 613	CEN0	00	DS11	00
CETANE INDEX		46.0		57.9	ASTM	D 4737	CI01	00	TS03	00
KINEMATIC VISCOSITY AT40 DEG C	CST	2.00	4.50	3.72	ASTM	D 445	KV40	00	FP01	00
COLD FILTER PLUGGING POINT,CFPP	DEG C		5	-3	IP	309	CF00	00	CR03	00
SULPHUR CONTENT	MG/KG		50	9	ASTM	D 7212	TSWD	00	AS00	00
COPPER STRIP CORROSION,3 HRS @ 50 DEG C	NO.		1	1	ASTM	D 130	CC00	00	MO00	00
OXIDATION STABILITY	MG/L		25	10	ASTM	D 2274	OS00	00	CC00	00
CARBON RESIDUE (ON 10 PCT RESIDUE)	WT PCT		0.30	0.03	ASTM	D 4530	CR03	00	KV40	00
WATER CONTENT	MG/KG		200	91	ASTM	D 6304	MO00	00	DI01	34
TOTAL CONTAMINATION	MG/KG		24	5	IP	440	TC00	00	DI01	29
ASH CONTENT	WT PCT		0.010	0.001	ASTM	D 482	AS00	00	DI01	24
STRONG ACID NO.			NIL	NIL	ASTM	D 974	AC01	00	CF00	00
TOTAL ACID NO.	MG KOH/GR		0.2	0.1	ASTM	D 664	AC00	00	AC00	00
FLASH POINT	DEG C	55		82	ASTM	D 93	FP01	00	AC01	00
RECOVERED AT 250 DEG C	VOL PCT		65	15	ASTM	D 86	DI01	29	DSA2	00
RECOVERED AT 350 DEG C	VOL PCT	85		92	ASTM	D 86	DI01	24		
95% RECOVERED AT	DEG C		360	357	ASTM	D 86	DI01	26		
LUBRICITY,WSD 1.4, AT 60 DEG C	NM		460	398	ISO	12156/1	LU00	00		
POLYCYCLIC AROMATIC HYDROCARBONS	WT PCT		11	2	IP	391	PCA0	00		
DENSITY IN AIR	KG/M3			0.8368	CALC		DSA2	00		
Fatty Acid Methyl Esters (FAME)	%VOL		5.0	4.6	EN	14078	FAME	00		

- 1) Biodiesel is comprised of FAME from vegetable or animal oil.
- 2) Biodiesel quality is according to EN 14214.
- 3) B/L Date:
- 4) B/L Quantity:

Approved By:

  
**A. Sokolov**  
 Manager of production  
 laboratory