



GANESH BENZOPLAST LTD.

ENGINE OIL ADDITIVE (GL 7521)

TECHINAL DATA SHEET

INTRODUCTION

A multifunctional additive for use in formulating crankcase oils suitable for gasoline and diesel engines

GL 7521 is a highly detergent additive package possessing excellent thermal oxidation stability characteristics. It has been developed to fulfill the severe requirements of lubricating oil for high output engines. Finished oils containing the recommended concentration of GL 7521 exceed the engine test performance requirements for API Classification.

FORMULATIONS

Recommended for use at:

In part synthetic 20W-40 oil formulation to prepare crankcase engine oil meeting the requirements of API service category CC.

GL 7521 at optimized treat levels (based on specific engine test requirements) can be used in formulating single viscosity and multi viscosity mineral oil based crankcase engine oils meeting requirements of API service category CC, CD, SC, EDL1, EPL1, MIL-B, EDL2, MIL-C, EDL3.

TYPICAL PROPERTIES

Specific Gravity@15.6° C, ASTM D-1298	1.041
Viscosity @ 100°C, cst	175
Total Base Number, mg KOH/g, ASTM D-2896	130

APPLICATIONS

- Appropriate viscosity at all operating temperatures & conditions, especially at cold starting and high ambient temperatures, ensuring better lubrication.
- Ensures enhanced engine life by providing excellent wear protection during starting, when wear is maximum.
- Cleans carbon deposits formed in the combustion chamber.
- Controls oil thickening by virtue of its excellent dispersive action.
- Extends oil life & reduces oil consumption.
- Takes care of acid formed due to Sulphur Di-Oxide & thereby reducing wear due to acid corrosion.
- Compatible with catalytic converters.
- Prevents degradation and sludge formation of the oil at high operating temperatures & speeds, thereby extending oil life.
- Reduces the frictional forces ensuring smooth engine operation and fuel economy.



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USES :

- Recommended for crankcase lubrication of four stroke petrol engines.
- Recommended for use in modern high performance Indian cars like Maruti, Contessa Classic, Daewoo, Mitsubishi, Hyundai, Premier 118NE, etc.
- Recommended for crankcase lubrication in four stroke diesel engines under medium operating conditions.
- Also suitable for stationary diesel engines operating on HSD or LDO.

GL 7521		
GL 7521 is a performance package for the formulation of single and multigrade diesel oils with Gasoline engine capability. Rationalisation is possible to both higher and lower performance levels.		
Performance Level	SAE Viscosity Grade	GL 7521, mass%
CF	30,40,50,10W,20W	8.5
CF, SF, MB	30,40,50,20W	8.5
CD, SE	15W40, 20W40, 20W50	7.2
CD, SE	30,40,50,20W	7.2
CC,SE	15W40, 20W40, 20W50	6.3
CC,SE	30,40,50,20W	6.3
CC,SD	30,40,50,20W	5.5
CC,SC	30,40,50,20W	4.5
CB,SC	30,40,50,20W	4.3
SB	30,40,50,20W	2.2



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SPECIFICATION SHEET

TEST	PROCEDURE	MIN	MAX
1. PRIMARY ANALYSIS			
Appearance			
Specific Gravity @ 15.6° C	GL-GR-1	1.026	1.056
Viscosity @ 100° C., cst	ASTM D 445	160	190
Color, ASTM Dilute	ASTM D 1500	3	5
% Water	ASTM D 95		0.8 MAX
Foam Test SEQ II	ASTM D 892		PASS
Blot	GL-BL-1A		PASS
Clarity	CLARK CLAR.		PASS
Magnesium	GL-AAE-3	0.85	1.03
Nitrogen	GL-Ni-6	0.33	0.41
Phosphorus	GL-AAE-3	1.42	1.74
Sulfur	GL-SU-6/10	4	5
Zinc	GL-AAE-3	1.59	1.95
Calcium	GL-AAE-3	3.06	3.74
Sodium	GL-AAE-3	0.87	1.07
Turbidity	GL-JTU-1		150
2. SECONDARY ANALYSIS			
Mineral oil	Calculated		
Viscosity @ 40° C., cst	ASTM D 445	3000	3300
Flash point, ° C., PMCC	ASTM D 93		110 MIN
Pour Point, ° C.	ASTM D 97		-10
% Sulfated Ash, ASTM	ASTM D 874	20	24
TBN	GL-NN-29D	120	135