

WS 242 L



11.60 SERIE

WS 242 L

10000 RPM
10000 RPM
10000 RPM
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10000 RPM



DAF ENGINEERING
DAF ENGINEERING



Mathematics**1. Number Systems**

- Real numbers
- Rational numbers
- Irrational numbers
- Integers
- Fractions
- Decimals
- Percentages
- Ratios
- Proportions
- Operations on numbers
- Order of operations
- Properties of numbers
- Number lines
- Absolute value
- Rounding
- Estimation

2. Algebra

- Linear equations
- Quadratic equations
- Systems of equations
- Inequalities
- Functions
- Graphs
- Slope
- Intercepts
- Factoring
- Simplifying expressions
- Solving word problems
- Applications
- Word problems
- Real-world problems
- Modeling
- Problem solving

3. Geometry

- Area
- Perimeter
- Volume
- Surface area
- Circumference
- Angles
- Triangles
- Quadrilaterals
- Polygons
- Circles
- Arcs
- Sectors
- Similar figures
- Congruent figures
- Transformations

Mathematics is a branch of science that deals with the study of numbers, shapes, and patterns. It is a fundamental part of many other sciences and is used in many practical applications.

Science**1. Biology**

- Cells
- Tissues
- Organs
- Systems
- Reproduction
- Growth
- Development
- Evolution
- Ecology
- Environment
- Conservation
- Biodiversity
- Genetics
- Heredity
- Variation
- Speciation

2. Chemistry

- Matter
- Elements
- Compounds
- Mixtures
- Atoms
- Molecules
- Ions
- Acids
- Bases
- Salts
- Reactions
- Equations
- Stoichiometry
- Kinetics
- Thermodynamics
- Equilibrium

3. Physics

- Motion
- Forces
- Energy
- Work
- Power
- Heat
- Temperature
- Pressure
- Sound
- Light
- Electricity
- Magnetism
- Optics
- Modern physics
- Relativity
- Quantum mechanics

Science is a systematic study of the natural world. It involves observation, experimentation, and the formulation of theories to explain natural phenomena.

English Language Arts**1. Reading**

- Comprehension
- Analysis
- Interpretation
- Evaluation
- Synthesis
- Application
- Critical thinking
- Problem solving
- Communication
- Collaboration
- Creativity
- Innovation
- Leadership
- Teamwork
- Responsibility
- Citizenship

2. Writing

- Narrative
- Expository
- Persuasive
- Analytical
- Creative
- Technical
- Professional
- Academic
- Journalistic
- Legal
- Medical
- Scientific
- Historical
- Cultural
- Artistic
- Literary

English Language Arts is a branch of education that focuses on the study of language, literature, and communication. It is a fundamental part of many other disciplines and is used in many practical applications.

Art**1. Visual Arts**

- Drawing
- Painting
- Sculpture
- Printmaking
- Photography
- Video
- Animation
- Design
- Architecture
- Fashion
- Interior design
- Landscape architecture
- Urban planning
- Environmental design
- Industrial design
- Product design

2. Music

- Music theory
- Music history
- Music business
- Music education
- Music performance
- Music production
- Music engineering
- Music management
- Music marketing
- Music promotion
- Music distribution
- Music licensing
- Music royalties
- Music copyright
- Music patents

3. Theater

- Acting
- Directing
- Producing
- Scriptwriting
- Stage design
- Costume design
- Hair and makeup
- Props
- Stage management
- Box office
- Marketing
- Promotion
- Distribution
- Licensing
- Royalties

Art is a form of human expression that uses visual, auditory, or other sensory elements to create a work of beauty or meaning. It is a fundamental part of many other disciplines and is used in many practical applications.

PROJECT INFORMATION	PROJECT NO. 252 & DATE: 12-1-72	S&P COMPONENTS
GENERAL INFORMATION		
No. of cylinders and specific construction Lead Wax Printer Ink Carbon Development Ink Compression Ratio Impurities	9 IN LINE, 1000000 2 x 20000 12000 2000 11000 2000 Unlubricated and unpolished 1000000	
Notes according to S&P Method and S&P, given as	100% 100% 100%	
* See notes of test	100% 100% 100%	
* See notes of test	100% 100% 100%	
Impurities given according to S&P - 1000000	100% 100% 100%	
See attached test compression graphs - copy	100% 100%	
Test Subject is an engine cylinder		
* at 20 % wettest temperature		
- test to conduct 100%	70 70	
- test to change oil system 100%	10 10	
- test time by reduction 100%	10 10	
- test to reduce 100%	100 100	
* at 50 % wettest temperature		
- test to conduct 100%	70 70	
- test to change oil system 100%	10 10	
- test time by reduction 100%	10 10	
- test to reduce 100%	100 100	
Note Test Efficiency (S&P)	100% 100%	
Note piston speed 100%	10.1 10.1	
S&P weight engine test 100%	100% 100%	
TESTING RESULTS		
Piston speed (copy)	100% 100%	
Piston speed (S&P)	100% 100%	
Conduct capacity without indicator 100	100% 100%	
Thermometer used in test at 100%	100% 100%	
Thermometer used in test at 100%	100% 100%	
Dry test temperature 100%	100% 100%	
See pressure drop test results and tests used water connection pressure	100% 100%	
App: 100%_p	100% 100%	

ISSUER INFORMATION	Engine No and L	J&F Comments
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MECHANICAL SYSTEM

Oil specification	ISO motor oil grade	
Engine oil change interval (hrs)		25
Oil capacity (liters)		25
Oil change (type)	Manufacturer's type	
Oil change (quantity)		2
Oil system (type)	System	
Oil pressure (operating speed) (kPa)		100 - 150
Oil pressure (idle speed) (kPa)		50 - 100
Oil pressure (start/stop) (kPa)		50
Oil temperature (operating at idle speed) (°C) ..		50 - 100
Oil temperature (max. performance) (°C) ..		115

EXHAUSTION SYSTEM

Max. hot exhaust temperature (°C)	1,200	1,000
Max. cold exhaust temperature (°C)	100	50

COOLING SYSTEM

Coolant and filter (type)		
Coolant and temperature (°C)	100	100
Height of coolant passage (mm)	100	100
Max. recommended coolant tank pressure (kPa) ..		2

IGNITION SYSTEM

Ignition system	1-5-1-4-3-2
Ignition	Spark
Ignition distributor (type)	Manufacturer's type
Ignition starts at 1/2 before TDC	1/2
Ignition pressure (type)	100
Ignition pressure (max. allowed speed) (type) ..	100-150

ELECTRICAL SYSTEM

Starting motor (type)	DC
Starting motor (voltage)	24 V / 24 V
Alternator (quantity)	24 V / 24 V / 24 V

AIR INTAKE SYSTEM

Filter or wiper	0
Intake valve (type)	240
Type cooling	Water

GENERAL DATA

Weight	2
Max. pressure	240
Speed	240



WS 268 L

11.60 SERIE
WS 268 L
 6000 RPM 2000 HP
 2000 RPM 1000 HP
 1500 RPM 700 HP
 1200 RPM 500 HP



DAF ENGINE
 11.60 SERIE
 WS 268 L



Project Description	Quantity (ft ³ per 1000)	Unit Cost	
		per 1000 ft ³	
GENERAL PROTECTION:			
No. of excavations and trenches (estimated) Area Slope 1:1 Slope 1:1 Slope 1:1 Slope 1:1 Slope 1:1 Slope 1:1	4 - 10' deep, vertical 8 - 10' deep 1:1 1:1 1:1 1:1 1:1 1:1		
Subject according to test results for slope, water and other factors	1:1 1:1 1:1 1:1 1:1 1:1 1:1		
No. slopes of 1:1 No. slopes of 1:1 No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		
No. slopes of 1:1	100 100 100 100 100 100 100		

APP. 100

DATE: 10-08-18

PROPERTY IDENTIFICATION	PROPERTY NO AND S.	NET CAPACITY
LIQUIDATION COSTS		
Net acquisition cost		Net liquidation value
Trade expense net proceeds 1%		20
Trade expense net. Oil lease 1%		20
Trade expense net. Oil lease 1%		20
Oil interest - type		Depreciable interest
- interest		0
Oil interest - type		None
Oil proceeds - operating expense 100%		100 - 200
- shut down 100%		20 - 200
- shut down 100%		20
Oil transportation - operating on lease land 100% ..		20 - 200
- shut down 100% ..		20
NET LIQUIDATION PROCEEDS		
Net. Oil interest receivable 100%	1.00%	1.00%
Net. Oil lease 100%		0
PROPERTY VALUE		
Current gas value 100%	100%	100%
Current gas transportation 100%	100%	100%
Value of interest owned 100%	100%	100%
Net proceeds interest from present well ..		0
LIQUIDATION SYSTEM		
Flowing well	1-2-3-4-5-6	None
Production	None	None
Production (percentage) - type	None	None
Production interest on 100%	100%	100%
Trade proceeds - type	100%	100%
- net. interest owned liquid	100%	100%
LIQUIDATION SYSTEM		
Current well 100%	100%	100%
Production	100%	100%
Production (percentage) - type	100%	100%
Production interest on 100%	100%	100%
Trade proceeds - type	100%	100%
- net. interest owned liquid	100%	100%
LIQUIDATION SYSTEM		
Current well 100%	100%	100%
Production	100%	100%
Production (percentage) - type	100%	100%
Production interest on 100%	100%	100%
Trade proceeds - type	100%	100%
- net. interest owned liquid	100%	100%
LIQUIDATION SYSTEM		
Current well 100%	100%	100%
Production	100%	100%
Production (percentage) - type	100%	100%
Production interest on 100%	100%	100%
Trade proceeds - type	100%	100%
- net. interest owned liquid	100%	100%
LIQUIDATION SYSTEM		
Current well 100%	100%	100%
Production	100%	100%
Production (percentage) - type	100%	100%
Production interest on 100%	100%	100%
Trade proceeds - type	100%	100%
- net. interest owned liquid	100%	100%
LIQUIDATION SYSTEM		
Current well 100%	100%	100%
Production	100%	100%
Production (percentage) - type	100%	100%
Production interest on 100%	100%	100%
Trade proceeds - type	100%	100%
- net. interest owned liquid	100%	100%
LIQUIDATION SYSTEM		
Current well 100%	100%	100%
Production	100%	100%
Production (percentage) - type	100%	100%
Production interest on 100%	100%	100%
Trade proceeds - type	100%	100%
- net. interest owned liquid	100%	100%

WS 295 L



11.60 SERIE

WS 295 L

12000 RPM
12000 RPM
12000 RPM
12000 RPM
12000 RPM



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Product Identification	Quantity on Hand	Unit	
		Weight	Volume
ITEMIZATION SUMMARY			
001 Description		Net Weight Gross	
Total weight on capacity	121	27	25
Long capacity less min. gross	121	25	17
Long capacity less min. gross	121		
002 Volume - Total		Compressed Filter	
- quantity		1	
003 Volume - Type		Filtering	
004 Pressure - maximum rated (PSI)		200	200
- min. rated (PSI)		20	200
- min. rated (PSI)			20
005 Temperature - operating at min. and max. (°F)		70	200
- max. permissible (°F)		200	
006 Weight Summary		L. Wt.	G. Wt.
Min. start separation	10000	200	200
007 Volume Summary			
Minimum gas flow	10000	170	1000
Minimum gas temperature	200	100	470
Weight at standard pressure	10000	200	1000
Min. permissible volume	10000		
OPERATING DATA			
Filtering rate		2000000	
Temperature		Filtering	
Minimum injection temp. - Type		Min. Permissible	
Temperature starts at 1 - Min. (°F)		11	
Start pressure - Type		10000	
- max. allowed (PSI) Type		2000000	
OPERATING DATA			
Filtering rate - Type		100	
- quantity		1000	
Attenuation - quantity		1000	
008 Performance		1000	
Weight of substance	10000	1000	
Temperature	10000	1000	
Type testing	10000	1000	
OPERATING DATA			
Weight of gas	10000	1000	
Min. pressure	10000	1000	
Speed	10000	1000	

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WS 315 L



11.80 SERIE

WS 315 L

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(S) 1000 RPM
 (S) 1200 RPM
 (S) 1400 RPM



GENERAL DESCRIPTION

No. of operators and vehicle equipment	6 in line, vehicle 4 - 40000.
Costs	100.0
Time 1000	100.0
Power 1000	11.00
Water requirement 100	10.0
Compressor rating	For installation and maintenance
Equipment	1000.00
Costs according to 02-1000 and 02-1000, 1000	1000 1000 1000
• Max. power of 1000	100 1000 1000
• Max. torque of 1000	100 1000 1000
Station time according to 02-1 - 02-1000	400 x 100

SAF. installed and compressed liquid - 1000

Heat output to 02. Center element:

• at 20 °C ambient temperature			
- heat to coolant	1000	100	100
- heat to charge air heater	1000	10	10
- heat loss by radiation	1000	10	10
- heat to exhaust	1000	100	100
• at 25 °C ambient temperature			
- heat to coolant	1000	10	10
- heat to charge air heater	1000	10	10
- heat loss by radiation	1000	10	10
- heat to exhaust	1000	100	100
max. heat rejection pressure 1000	1000	1000	
Heat pump speed 1000	100	100	
dry weight input dry 1000			1000

GENERAL DATA

Maximum speed 1000	1000	1000
Maximum capacity 10000	100	100
Maximum capacity without radiator 100		100
Temperature start to open at 1 °C		10 - 10
Temperature fully open at 1 °C		10
Heat sink temperature 1 °C		100
Max. pressure drop over radiator and hoses 1000		10
Water connection pressure	100	100

PRODUCT DESCRIPTION	Request No. 012 1	NET COMMENTS
APPROXIMATE WEIGHTS		
Total engine oil capacity 100	NET WEIGHT (lb)	Net Comments
Total engine oil capacity 100		20
Total capacity 100		25
Total capacity 100		27
Oil capacity - 100	Temperature 111Apr	1
Oil capacity - 100	Weight	
Oil pressure - operating speed 1000	100 - 100	
Oil pressure - 1000	100 - 100	
Oil pressure - 1000	100	
Oil temperature - operating at 1000	100 - 100	100
Oil temperature - 1000	100	
APPROXIMATE WEIGHTS	1. 100	1. 100
Total oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
APPROXIMATE WEIGHTS	1000	1000
Net oil capacity 1000	1000	1000
APPROXIMATE WEIGHTS	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
ELECTRICAL SYSTEM	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
APPROXIMATE WEIGHTS	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000
Net oil capacity 1000	1000	1000