

SOUTHWEST RESEARCH INSTITUTE™

6220 CULEBRA ROAD • POST OFFICE DRAWER 28510 • SAN ANTONIO, TEXAS 78228-0510, USA • (210) 684-5111 • WWW.SWRI.ORG

TEST REPORT

May 17, 2002

Dr. Alan D. Roth
Militec, Inc.
601A Lofstrand Lane
Rockville, MD 20850

Dear Dr. Roth:

Listed below are the test results for the sample that you sent to us for analysis. The sample was received at our laboratory on 03/29/2002 in a quart plastic container.

Test and Test Method	2104-G
FTM 3470 Homogeneity & Miscibility	Enclosed
FTM 3430 Storage Stability & Compatibility	Enclosed

Test aliquots were taken in accordance with the test procedure.

The analyses pertain only to the sample received by Southwest Research Institute. This report shall not be reproduced except in full without the express written permission of Southwest Research Institute.

Please let me know if we can be of further assistance.

Sincerely,



John Barrientes
Research Scientist
Petroleum Products Research Department
Automotive Products and Emissions Research Division

JB:rjm

OBJ-B15H7 1 OF 1



DETROIT, MICHIGAN (248) 353-2550 • HOUSTON, TEXAS (713) 977-1377 • WASHINGTON, DC (301) 881-0289

ENGINE OIL HOMOGENEITY AND MISCIBILITY TEST

COMPANY: MILITEC, INC. DATE: 4/01/02
 FORMULA NUMBER: N/A GRADE: 15W40
 TEST NUMBER: N/A BLEND #: N/A

QUALIFIED OIL ADDED TO SAMPLE	NONE	1-30	2-30	3-30	4-30	5-30	6-30
BEFORE SEPARATION							
EVIDENCE OF TREATMENT	N	N	N	N	N	N	N
LOCATION							
COLOR							
PARTICLE SIZE							
COLOR OF OIL	m	m	m	m	m	m	m
COOLED TO POUR POINT, °C	-36	-48	-39	-36	-36	-36	-42
WARMED JUST ABOVE CLOUD POINT							
EVIDENCE OF SEPARATION	N	N	N	N	N	N	N
LOCATION							
COLOR							
PARTICLE SIZE							
COLOR OF OIL	m	m	m	m	m	m	m
HEAT TO 232°C, COOL TO POUR POINT, STORE 24 HOURS, WARM ABOVE POUR POINT							
EVIDENCE OF SEPARATION	N	N	N	N	N	N	N
LOCATION							
COLOR							
PARTICLE SIZE							
COLOR OF OIL	d	m	m	m	m	m	m
WARM TO ROOM TEMPERATURE							
EVIDENCE OF SEPERATION	N	N	N	N	N	N	N
LOCATION							
COLOR							
PARTICLE SIZE							
COLOR OF OIL	d	m	m	m	m	m	m

COMMENTS: Acceptable

ABBREVIATIONS

EVIDENCE OF SEPARATION

D-DEFINITE
 N-NONE OR DOUBTFUL

COLOR

w-WHITE OR VERY LIGHT
 y-YELLOW
 b-BLACK

OIL PHASE COLOR

d-TOO DARK TO SEE THROUGH
 m-TRANSPARENT BUT DARK
 l-LIGHT

LOCATION

T-NEAR TOP
 B-NEAR BOTTOM
 F-FILAMENT
 U-UNIFORMLY DISTRIBUTED

PARTICLE SIZE

s-SMALL, AS IN CLOUD OR HAZE
 s_p-SPECKS OR LARGER PARTICLES


 John Barrientes, Research Scientist

LUBRICANT REVIEW INSTITUTE

GEAR OIL QUALIFICATION

MIL-PRF-2105E

FTM 3430/3440 Storage Stability and Compatibility

Company: MILITEC, INC. Date: 5/15/02

Sponsor Code: MIL-PRF-2104G Grade: 15-W-40


Storage Solubility

Insoluble Residue (grams) 0.00
Insoluble Residue (ml) 0.00

Compatibility

<u>Reference Oil</u>	<u>Incompatibility (% wt.)</u>	<u>Incompatibility (% vol.)</u>
#1	0.00	---
#2	0.00	---
#3	0.00	---
#4	0.00	---
#5	0.00	---
#6	0.00	---

Comments: Acceptable


John Barrientes, Research Scientist
Petroleum Products Research Department
Automotive Products and Emissions Research