

UIN 05DC693

New Oil

Unit No. Reference Oils

Unit: Make Model Serial No.

Capacity Ltrs

Site

Compartment:

Name NR 5W40

Make Model Serial No.

Customer:

NULON PRODUCTS AUSTRALIA

DIAGNOSIS

Diagnosis not applicable. Please check results against requirements. Note: Oil type stated as, Nulon 5W40.

DATE SAMPLED	27-May-17
DATE RECEIVED	30-May-17
DATE REPORTED	31-May-17
SAMPLE NO.	10204272850

21576821

5

< 0.1

87

13.7

WORK ORDER NO.
MACHINE
COMPONENT
OIL
OIL MAKE
OIL TYPE
SAE
OIL GRADE
OIL ADDED
Ltrs

Metals (ppm) Aluminium (Al)

FILTER

TRACKING NUMBER

FILTER CHANGED

OIL CHANGED

Copper (Cu) <1
Chromium (Cr) <1
Iron (Fe) 1
Lead (Pb) <1
Tin (Sn) 2
Nickel (Ni) <1

Contaminants (ppm)
Silicon (Si)
Boron (B)

 Boron (B)
 75

 Sodium (Na)
 3

 Potassium (K)
 1

 Phosphorus (P)
 1501

 Molybdenum (Mo)
 750

 Magnesium (Mg)
 12

 Calcium (Ca)
 2789

 Zinc (Zn)
 1624

Physical Tests
Water (%)
Viscosity (cSt,40°C)
Viscosity (cSt,100°C)
PQ Index
TAN mgKOH/q

 PQ Index
 <10</td>

 TAN mgKOH/g
 3.60

 Total Base Number (FTIR)
 5.4

 Viscosity Index (ASTM D2270)
 161

 Oxidation (Abs)
 31.6

Particle Count

ISO 4406 Code 22/20/14



nicholas.cullen









LEGEND





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UIN 05DC693

No Data Available	No Data Available
No Data Available	No Data Available
No Data Available	Filter Image Filter patch test is not performed Contact laboratory for more information

Since services are based on samples and information supplied by others, and since corrective actions, if any, are necessarily taken by others, these services are rendered without any warranty or liability of any kind beyond the actual amount paid to ALS Tribology for the services. Reported recommendations are based on interpretations of the generated test results and historical data. Certain test results appearing in this report may have been tested at other ALS laboratories within the Tribology divisional network.

Australia & New Zealand

Perth Sydney

41 Yarraman Place Virginia QLD 4014 Phone: (07) 3326 6300 Fax: (07) 3326 6321

Brisbane

109 Bannister Road Canning Vale WA 6155 Phone: (08) 9232 0400 Fax: (08) 9232 0499

2/171-175 Newton Road Wetherill Park NSW 2164 Phone: (02) 8786 3150 Fax: (02) 9725 5071

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Attn: lan Johnston PO Box 549 Nulon Products Australia Moorebank NSW 1875

0268 v1.8

TEST METHODS:

ASTM D974/D664 Acid Number: Base Number: **ASTM D4739** Base Number (Perchloric): **ASTM D2896**

Fuel Dilution by GC: ASTM D3524/D7593 Fuel Dilution Visc/Setaflash ASTM D445/D7279/D3828

Fuel Soot ATR/IR: **ASTM D7686** Glycol: **ASTM D2982** Metals by ICP AES: **ASTM D5185**

Ox. NOx. SOx. FTIR: ASTM D7418/D7414/D7415

D7624

Particle Count: ASTM D7647 / ISO 11500, 4406

Viscosity: ASTM D445 / D7279

Muswellbrook Wellington Unit 2/6 Industrial Close 74 Seaview Road

Muswellbrook NSW 2333 Lower Hutt Wellington NZ 5010 Phone: (64) 04 586 6202 Phone: (02) 65413865 Fax: (64) 04 586 6262

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Water KF: ASTM E203 Mod / D6304C

Water Crackle: In House