



# OIL ANALYSIS REPORT

## UIN 09689BF

### Gasoline Engine

**Unit No.** Ford

**Unit:**  
**Make** Ford  
**Model** Ranger  
**Serial No.**  
**Capacity:** 6.2 qt  
**Site**

**Compartment:**  
**Name** Gasoline Engine  
**Make**  
**Model**  
**Serial No.**

**Customer:**

### DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor.

**ANALYST:** Jon.Sowers

**LEGEND**

Normal	Severe	Abnormal	Caution	Normal

<b>DATE SAMPLED</b>	28-Sep-22	05-Jun-22
<b>DATE RECEIVED</b>	04-Oct-22	24-Jun-22
<b>DATE REPORTED</b>	05-Oct-22	27-Jun-22

LAB NO.	42021805526	42021770300
SIF NO.	43093982	43094295
TIME ON UNIT	mi 25541	15620
TIME ON OIL	mi 9921	9920
OIL BRAND	Amsoil	Amsoil
OIL TYPE	Signature Series Syn	Signature Series Syn
OIL GRADE	SAE 5W30	SAE 5W30
OIL ADDED		
FILTER	Changed	Changed
OIL CHANGED	Changed	Changed
WO NUMBER		

**Metals (ppm)**

Iron (Fe)	12	14
Chromium (Cr)	<1	<1
Lead (Pb)	<1	<1
Copper (Cu)	5	13
Tin (Sn)	<1	<1
Aluminium (Al)	4	9
Nickel (Ni)	<1	<1
Silver (Ag)	<1	<1
Titanium (Ti)	<1	<1
Vanadium (V)	<1	<1

**Contaminants (ppm)**

Silicon (Si)	21	29
Sodium (Na)	7	7
Potassium (K)	4	22

**Additives (ppm)**

Magnesium (Mg)	1010	894
Calcium (Ca)	1354	1346
Barium (Ba)	<1	<1
Phosphorus (P)	772	750
Zinc (Zn)	879	897
Molybdenum (Mo)	229	226
Boron (B)	21	34

**Contaminants**

Water (%)	<0.05	<0.05
Coolant	No	No

**Physical Tests**

Viscosity (cSt 100C)	9.6	9.5
----------------------	-----	-----

**Physical / Chemical**

Base Number (mgKOH/g)	3.5	3.5
-----------------------	-----	-----



**UIN 09689BF**

**U.S. Laboratories**

**Atlanta, Georgia - 420**

5300 OakBrook Parkway  
Building 200 Suite 245  
Norcross, GA 30093  
800.394.3669

**Valley View, Ohio - 410**

6180 Halle Dr. Suite D  
Valley View, OH 44125  
800.726.5400

**Kansas City, Kansas - 430**

935 Sunshine Road  
Kansas City, KS 66115  
800.332.8055

**Phoenix, Arizona - 440**

3319 West Earll Drive  
Phoenix, AZ 85017  
800.445.7930

**Portland, Oregon - 401**

4943 NW Front Avenue  
Portland, OR 97210  
800.770.4128

**Canadian Laboratories**

**Burlington, Ontario - 450**

5036 South Service Rd.  
Burlington, ON L7L5Y7  
905 332 9559

**Edmonton, Alberta - 402**

9450 17 Ave NW  
Edmonton, AB T6N 1M9  
888.489.0057

**Sales & Marketing**

**Houston, Texas**

10450 Stancliff Road, Suite 210  
Houston, TX 77099  
877.835.8437

**International Locations**

**Australia**

Brisbane, Perth, Sydney,  
Muswellbrook

**Europe**

Prague

**New Zealand**

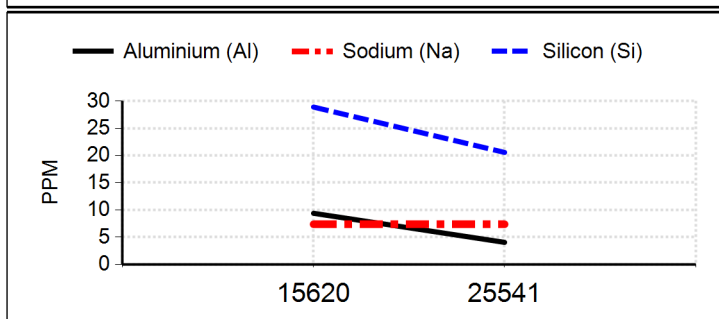
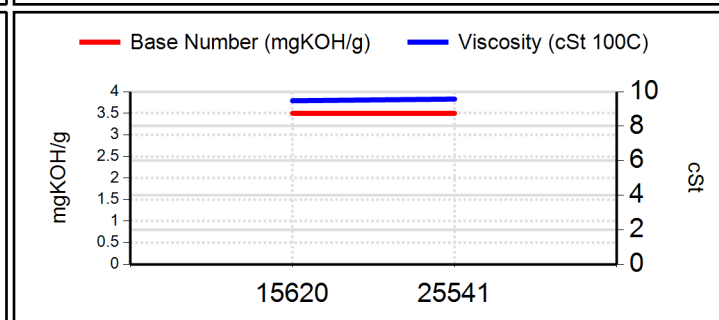
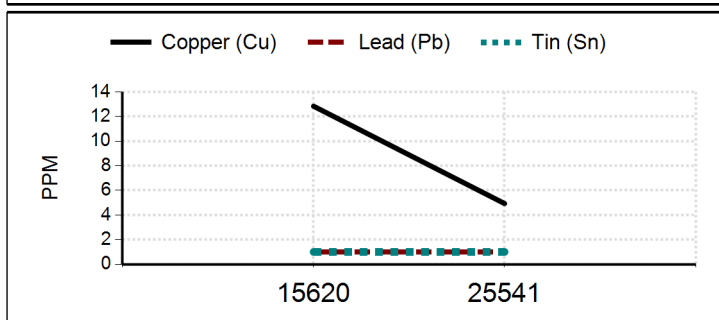
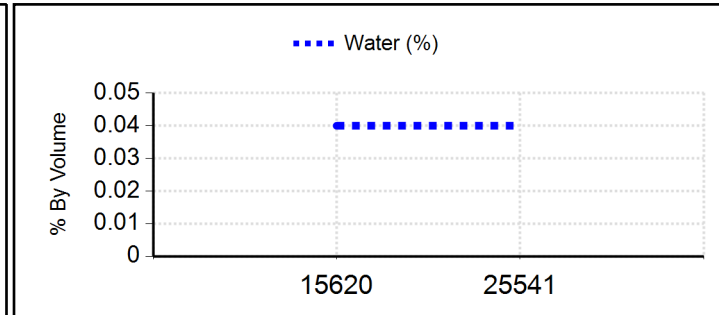
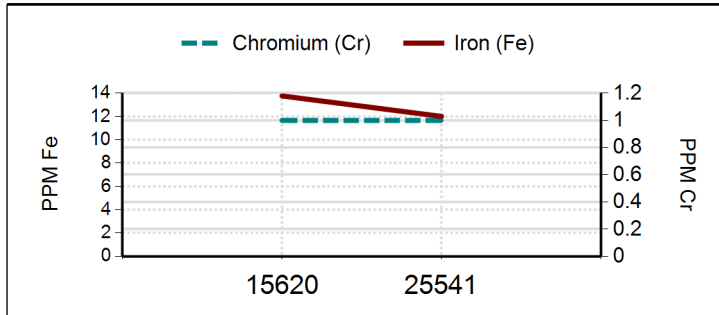
Wellington

**South America**

Santiago de Chile,  
Belo Horizonte, Brazil

**Southeast Asia**

Kuala Lumpur, Singapore



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.

Omar Ziadeh  
Attn: Omar Ziadeh  
206 Wall Blvd  
Gretna LA 70056  
USA