

UIN 0605B66

Gasoline Engine

Unit No.

Unit:

Make 2010 Land Rover

Model LR4 5.0L V8

Serial No.

Site

Compartment:

Name Gasoline Engine

Make

Model

Serial No.






Capacity:

DIAGNOSIS

All wear levels appear within acceptable limits for first sample. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Viscosity within specified operating range.

Action: Resample at next recommended interval to monitor and establish wear trend. Please provide missing oil information at next sample submission.

ANALYST: LeDonna.Neu

LEGEND				
				
Normal	Severe	Abnormal	Caution	Normal

DATE SAMPLED	12-Aug-17
DATE RECEIVED	06-Sep-17
DATE REPORTED	07-Sep-17
LAB NO.	43021040763
SIF NO.	14796382
TIME ON UNIT	114000
TIME ON OIL	10000
OIL BRAND	Castrol
OIL TYPE	Unidentified
OIL GRADE	SAE 5W20
OIL ADDED	
FILTER	
OIL CHANGED	Changed
WO NUMBER	
Metals (ppm)	
Iron (Fe)	55
Chromium (Cr)	1
Lead (Pb)	<1
Copper (Cu)	1
Tin (Sn)	<1
Aluminium (Al)	7
Nickel (Ni)	<1
Silver (Ag)	<1
Titanium (Ti)	1
Vanadium (V)	<1
Contaminants (ppm)	
Silicon (Si)	7
Sodium (Na)	33
Potassium (K)	<1
Additives (ppm)	
Magnesium (Mg)	23
Calcium (Ca)	3234
Barium (Ba)	<1
Phosphorus (P)	801
Zinc (Zn)	929
Molybdenum (Mo)	102
Boron (B)	24
Contaminants	
Water (%)	<0.05
Coolant	No
Physical Tests	
Viscosity (cSt 100C)	9.9
Physical / Chemical	
Base Number (mgKOH/g)	2.4



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U.S. Laboratories

- Atlanta, Georgia - 420
3121 Presidential Drive
Atlanta, GA 30340
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
- Sparks, Nevada - 400
1375 Greg Street, Suite 104
Sparks, NV 89431
800.524.7848

Canadian Laboratories

- Burlington, Ontario - 450
1240 Burloak Drive, Unit 6
Burlington, ON L7L 6B3
877.732.9559
- Edmonton, Alberta - 402
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Edmonton, AB T5S 1K1
888.489.0057

Sales & Marketing

- Houston, Texas
10450 Stancilff Road, Suite 210
Houston, TX 77099
877.835.8437

International Locations

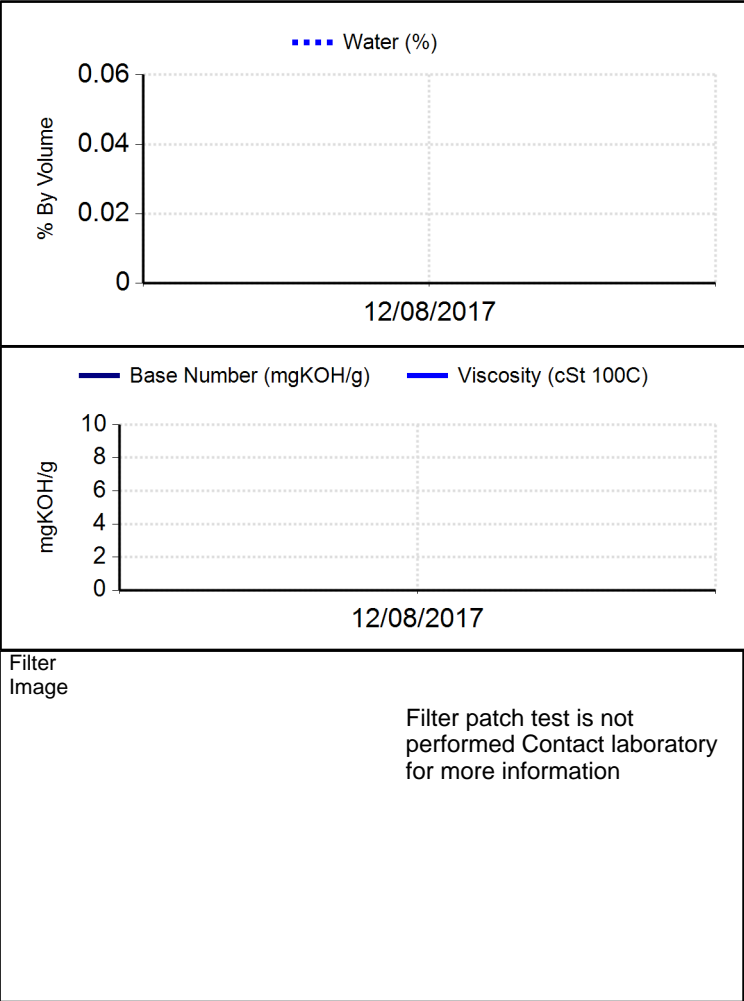
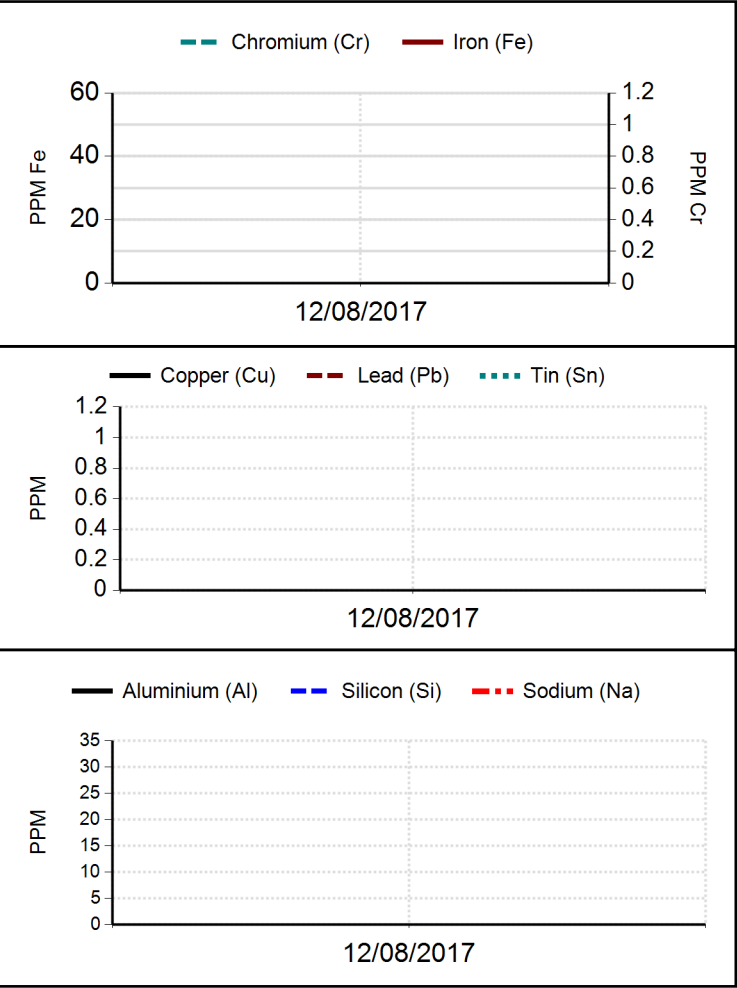
- Australia
Brisbane, Perth, Sydney, Muswellbrook
- South America
Santiago de Chile

- New Zealand
Wellington
- Southeast Asia
Kuala Lumpur, Singapore
- Europe
Prague

TEST METHODS:

- Acid Number: ASTM D974/D664 (*M)
- Base Number: ASTM D4739 (*M)
- 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 (*M)
- Glycol: ASTM D2982
- Metals by ICP AES: ASTM D5185 (*M)
- Ox, NOx, SOx, FTIR: ASTM D7418/D7414/D7415
D7624
- Particle Count: ASTM D7647 (*M) / ISO 11500, 4406
- Viscosity: ASTM D445 / D7279
- Water KF: D6304C / D1744 (*M)
- Water Crackle: In House

*M - Modified Method



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