



Client: **CALVIN LAMB**  
 MAIDSTONE, SK S0M1M0  
 ATTN: CALVIN LAMB

Unit #: **2018 F150**  
 Unit Location:  
 Component: **ENGINE**  
 Location:  
 Serial #: **[REDACTED]**  
 Make: **FORD**  
 Model: **3.5 ECOBOOST**  
 OAS #:



**AGAT** Laboratories  
 Equipment Reliability and Lubricants Testing Services  
 3650 21st Street N.E., Calgary, AB, T2E6V6  
 Phone:(403)299-2000 Fax:(403)299-2105



Date analyzed: **10/30/23**  
 Work order: **23C190262**

Oil brand & grade: **Castrol GTX Magnatec Syn 5W30 (2020)**

Client Ref #:

**LEGEND -** LC -Lower Critical    LR -Lower Reportable    UR -Upper Reportable    UC -Upper Critical    \* Ital -Custom Limit

UNIT DATA					SPECTROGRAPHIC ANALYSIS (PPM)																		
Sample#	Date Sampled	Component Service	Oil Service	Oil Changed	Al	Cr	Cu	Fe	Sn	Pb	Si	Mo	Ni	Ag	K	Na	B	Ba	Ca	Mg	Mn	P	Zn
					Aluminum	Chromium	Copper	Iron	Tin	Lead	Silicon	Molybdenum	Nickel	Silver	Potassium	Sodium	Boron	Barium	Calcium	Magnesium	Manganese	Phosphorus	Zinc
<b>New Oil</b>					0	0	0	0	0	0	4	72	0	0	0	0	203	0	1303	709	0	709	938
247242	10/12/23	175564 kms	9313 kms	Y	2	0	3	7	0	0	14	75	0	0	2	3	54 LC	0	1390	609	0	752	894
247241	12/16/22	149444 kms	8330 kms	Y	2	0	3	9	0	0	18	81	0	0	1	4	79 LC	0	1260	580	1	796	875
247238	07/23/21	103850 kms	10212 kms	Y	3	0	4	12	0	0	17	73	0	0	2	4	54 LC	0	1210	808	1	678	883
247214	07/27/20	74835 kms	8656 kms	N	2	0	4	11	1	0	8	63	0	0	1	2	56 LC	0	1070	723	1	609	766
247237	12/23/19	58120 kms	7819 kms	Y	2	1	6	17	0	0	8	78	0	0	1	3	65 LC	0	967	630	1	565	666
143982	07/10/19	42092 kms	6346 kms	Y	2	1	6	11	0	0	6	77	0	0	1	2	78 LC	0	927	613	1	556	630
143981	02/28/19	27866 kms	5350 kms	Y	3	1	8	10	0	1	6	60	0	0	1	5	130 LR	0	700	577	1	466	472
143979	11/19/18	17626 kms	4956 kms	Y	2	0	7	11	0	0	11	114	0	0	1	2	33 LR	0	2050	7	1	622	808
143978	09/24/18	12670 kms	4670 kms	Y	2	0	9	13	0	0	12	160	0	0	0	3	48 LR	0	1920	6	2	613	807

PHYSICAL PROPERTIES					ISO CLEANLINESS					OIL DEGRADATION												
Sample#	Glycol	H2O	% Fuel	Viscosity		% Solids	KF	°C Flash Point	Micron size			ISO Code	% SOOT			abs/cm-1			Min. RPVOT			
				40°C	100°C				4	6	14		OXD	NOX	COX	SO4	ZDDP	TAN		TBN		
<b>New Oil</b>				62.3	10.6																2.36	7.6
247242	N	N	3.5	51.4 LR	9.3								0.0	9	20	21	8	0				
247241	N	N	1.8	54.4	9.8								0.0	9	19	20	9	0				
247238	N	N		59.7	10.1								0.0	18	30 UC	31 UC	7	0				
247214	N	N	3.2	55.3	9.6								0.0	14	22	23	5	0				
247237	N	N		54.2	9.4								0.0	12	19	20	5	0				
143982	N	N		48.6	9.0								0.0	11	16	16	4	0				
143981	N	N	3.0	47.5	9.0								0.0	7	14	15	4	0				
143979	N	N	3.7	48.2 LC	8.8								0.0	6	14	14	4	0				
143978	N	N	4.0	44.4 LC	8.5 LR								0.0	5	12	12	4	0			4.2	

WEAR CONTROL CHART						COMMENTS	
Sample#	0	30	60	90	120	150	Comments:
247242							REFER TO REVERSE FOR QUALITY CONTROL REPORT, EXPLANATION OF VARIANCE AND POSSIBLE CAUSES.  Should you wish to provide feedback to AGAT Laboratories, please access our Customer review form at <a href="http://www.agatlabs.com/review.htm">www.agatlabs.com/review.htm</a> . This input is extremely important to us because your well being and satisfaction is our number one priority.
247241							
247238							
247214							
247237							
143982							
143981							
143979							
143978							

Client: 9999800

CALVIN LAMB  
BOX 846

MAIDSTONE, SK S0M1M0

ATTN: CALVIN LAMB

Unit No.: 2018 F150

Unit Location:

Component: ENGINE

Location:

Serial No.: IFTFWIEG5JFC34959

Make: FORD

Model: 3.5 ECOBOOST

OAS No.:



### Quality Control Report

Date analyzed: 10/30/23

Work order: 23C190262

Oil brand & grade: Castrol GTX Magnatec Syn 5W30 (2020)

Client Ref #:

**Flagged Result**

**Possible Causes**

**Significance of Result / Recommended Action**

B - Boron

Boron is a common anti-wear (AW) and extreme pressure (EP) additive in engine and gear oils.

Lower than expected boron levels may indicate additive depletion/precipitation or dilution. Identify and evaluate the cause. Verify the identity of the oil in use.

Fuel - Fuel Dilution

Fuel dilution may be due to excessive blow-by, excessive idling, cold weather starting, faulty injector, leaking fuel transfer pump seals or stop and go driving. Fuel dilution may be correlated with decreased oil viscosity.

Fuel dilution indicates contamination of the sample with fuel. Identify and evaluate the source. Consider changing the oil.

VISC40 - Viscosity at 40 C

Lower than expected viscosity may be due to contamination with lower grade oil, fuel or degradation due to shearing or extended drain intervals.

Lower than expected viscosity may indicate contamination or degradation of the oil. Verify the identity and grade of the oil in use. Identify and evaluate the cause. Consider changing the oil.

Client: 9999800  
 CALVIN LAMB  
 BOX 846  
 MAIDSTONE, SK S0M1M0  
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Unit #: **2018 F150**  
 Unit Location:  
 Component: **ENGINE**  
 Location:  
 Serial #: **IFTFWIEG5JFC34959**  
 Make: **FORD**  
 Model: **3.5 ECOBOOST**

Oil brand & grade: Castrol GTX Magnatec Syn 5W30 (2020)  
 Sample #: **C-1021379**  
 Date Sampled: 10/30/23  
 Date Analyzed: 10/30/23  
 Work order: 23C190262  
 Client Ref #:



## Sample Status and Trending

Sample Score:

Your Sample Score: **8**

Rankings: 0-3 Normal, 4-6 Reportable, 7-10 Critical



Normal

Reportable

Critical

### Trend Graphs

