

Client: **9999800**
CALVIN LAMB
 BOX 846
 MAIDSTONE, SK S0M1M0
 ATTN: CALVIN LAMB

Unit #: **2018 F150**
 Unit Location:
 Component: **ENGINE**
 Location:
 Serial #: **IFTFWIEG5JFC34959**
 Make: **FORD**
 Model: **3.5 ECOBOOST**
 OAS #:



Equipment Reliability and Lubricants Testing Services

3650 21st Street N.E., Calgary, AB, T2E6V6
 Phone:(403)299-2000 Fax:(403)299-2105



Date analyzed: **08/22/18**
 Work order: **18C140426**

Oil brand & grade: **MOTOMASTER FORMULA 1 SYN 5W30 (20.03.2012)**

Client Ref #: **INVOICE# 18508482T**

LEGEND - -Lower Critical -Lower Reportable -Upper Reportable -Upper Critical * *Ital* -Custom Limit

UNIT DATA					SPECTROGRAPHIC ANALYSIS (PPM)																		
Sample#	Date Sampled	Component Service	Oil Service	Oil Changed	Al Aluminum	Cr Chromium	Cu Copper	Fe Iron	Sn Tin	Pb Lead	Si Silicon	Mo Molybdenum	Ni Nickel	Ag Silver	K Potassium	Na Sodium	B Boron	Ba Barium	Ca Calcium	Mg Magnesium	Mn Manganese	P Phosphorus	Zn Zinc
New Oil					0	0	0	0	0	0	0	62	0	0	0	0	0	0	2520	12	0	853	1026
143976	08/11/18	8000 kms	4096 kms	Y	3	1	19	16	1	0	24	145 UR	1	0	1	3	54 UC	0	1860	7	4	593	762

PHYSICAL PROPERTIES					ISO CLEANLINESS				OIL DEGRADATION													
Sample#	Glycol	H2O	% Fuel	Viscosity		% Solids	KF	°C Flash Point	Micron size				% SOOT			abs/cm-1				Min. RPVOT		
				40°C	100°C				4	6	14	ISO Code	SOOT	OXD	NOX	COX	SO4	ZDDP	TAN		TBN	
New Oil				57.2	11.0																1.73	7.5
143976	N	N	3.4	46.6 LR	8.7 LR									0.0	3	9	9	0	0			

WEAR CONTROL CHART						COMMENTS	
Sample#	0	30	60	90	120	150	Comments:
143976							The Spectrographic analysis and viscosity results were confirmed by rerun. REFER TO REVERSE FOR QUALITY CONTROL REPORT, EXPLANATION OF VARIANCE AND POSSIBLE CAUSES.
			41				Should you wish to provide feedback to AGAT Laboratories, please access our Customer review form at www.agatlabs.com/review.htm . This input is extremely important to us because your well being and satisfaction is our number one priority.

* COMPONENT SERIAL NUMBER MUST BE GIVEN TO GENERATE HISTORY. Bold faced elements are included in Wear Control Chart. AGAT Laboratories Liability Shall Not Exceed The Cost Of Analysis. *Results relate only to the items tested

Client: 9999800

CALVIN LAMB
BOX 846

MAIDSTONE, SK S0M1M0

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Unit No.: 2018 F150

Unit Location:

Component: ENGINE

Location:

Serial No.: IFTFWIEG5JFC34959

Make: FORD

Model: 3.5 ECOBOOST

OAS No.:

Date analyzed: 08/22/18

Work order: 18C140426

Oil brand & grade: MOTOMASTER FORMULA 1 SYN 5W30 (20.03.2012)

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Quality Control Report

Flagged Result

Possible Causes

Significance of Result / Recommended Action

B - Boron	Boron is most commonly a coolant additive (in the form of borate). It may also be found in water inhibitors, extreme pressure additives, or grease additives.	Higher than expected boron levels generally indicate contamination. If high sodium and/or potassium levels are also present this commonly points to a coolant leak. Check for coolant leaks, seal failures, cracked heads or liners to identify and evaluate the source. Re-sample to monitor to ensure the source of contamination has been fixed.
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.
Mo - Molybdenum	Molybdenum may be found in steel alloys and as a coating for piston rings. It is also used as a friction-modifying additive.	Higher than expected molybdenum levels may indicate wear or contamination. Identify and evaluate the source. Consider filtering or changing the oil.
VISC100 - Viscosity at 100 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.
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.

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Location:
Serial #: IFTWIEG5JFC34959
Make: FORD
Model: 3.5 ECOBOOST

Oil brand & grade: MOTOMASTER FORMULA 1 SYN 5W30
Sample #: 299482
Date Sampled: 08/22/18
Date Analyzed: 08/22/18
Work order: 18C140426
Client Ref #: INVOICE# 18508482T



Sample Status and Trending

Sample Score:

Your Sample Score: 10

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



Normal

Reportable

Critical

Trend Graphs

