

Client: 9

ATTN:

Date analyzed: 09/22/21  
Work order: 21C170354  
Oil brand & grade: Castrol Edge Advanced 5W30 Full Syn (2020)  
Client Ref #:

Unit #: 2018 Mazda CX-9 AWD  
Unit Location:  
Component: ENGINE  
Location:  
Serial #:  
Make: MAZDA  
Model: 2018 CX-9  
OAS #: 4 CYL, 2.5 L TURBO GDI


# AGAT

Laboratories

Equipment Reliability and Lubricants Testing Services

3650 21st Street N.E., Calgary, AB, T2E6V6

Phone:(403)299-2000 Fax:(403)299-2105



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 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	8	93	0	0	0	0	74	0	887	1407	0	809	1039
281881	08/24/21			N	2	0	0	6	0	1	15	85	0	0	83 UC	9	36 LR	1	985	806 LR	0	767	1020
292501	05/11/21			N	3	0	1	12	0	0	26	78	0	0	122 UC	13	21 LC	1	720	1300	0	641	892

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**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.

K - Potassium

Potassium may be used in coolant additives. High levels of potassium and sodium suggest the presence of a coolant leak.

Higher than expected potassium levels may indicate contamination. Identify and evaluate source. Check for coolant leaks, seal failures, cracked heads or liners and resample to monitor.

Mg - Magnesium

Magnesium may be found in alkaline additives. It may also be found in hard water and road salt.

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

Client: 9999800

MICHAEL AMIGO  
3, SEWA CRESCENT

WINNIPEG, MB R2R 0K1

ATTN: MICHAEL AMIGO

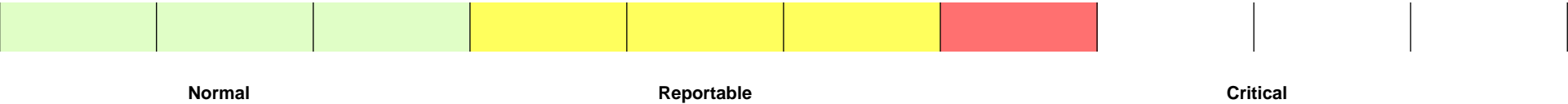
Unit #: **2018 Mazda CX-9 AWD**  
Unit Location:  
Component: **ENGINE**  
Location:  
Serial #:  
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Model: **2018 CX-9**

Oil brand & grade: Castrol Edge Advanced 5W30 Full Syn (2020)  
Sample #: **C-939312**  
Date Sampled: 09/22/21  
Date Analyzed: 09/22/21  
Work order: 21C170354  
Client Ref #:

Sample Score:

Your Sample Score: 7

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



Trend Graphs

