UNIT ID X535D E **SECOND ID**

UNIT TYPE DIESEL ENGINE **APPLICATION AUTOMOTIVE**



413-788-5823 120 BOSWORTH STREET WEST SPRINGFIELD, MA 01089

ACCOUNT NUMBER

DATE SAMPLED DATE RECEIVED **DATE COMPLETED**

TRACKING # MANUFACTURER/MODEL **LUBE MFR** LUBE TYPE - GRADE MICRON RATING FILTER TYPE

15 **FULLFLOW** SUMP CAPACITY **HYD SYSTEM PRESSURE** FLUID ADDED

59300001570000 12/18/09 01/06/10 01/11/10

08183002431 BMW X535D CASTROL SAE 5W30

2.00





LAB# LOCATION **ANALYST** 438790 EAD

FLUID ANALYSIS REPORT - 800-537-7683

COMMENTS Data flagged for observation only; Manganese sources in engines include manganese/bronze valve guides and/or a fuel additive; Flagged data has been rechecked and confirmed; Please provide missing lube type (PRODUCT NAME); Lubricant and filter change acknowledged;

WEAR METALS PPM													INANT - PPM		MULTI-SOURCE METALS - PPM						ADDITIVE METALS PPM					
S A M P L E #	I R O N	C H R O M I U M	N I C K E L	A L U M I N U M	C O P E R	L E A D	T I N	C A D M I U M	S I L V E R	V A N A D I U M	S I L I C O N	S O D I U M	P O T A S S I U M	T I T A N I U M	M O L Y B D E N U M	A N T I M O N Y	M A N G A N E S E	L I T H I U M	B O R O N	M A G N E S I U M		C A L C I U M	B A R I U M	PHOSPHOROUS	Z I N C	
1	31	0	0	11	11	3	2	0	0	0	14	4	13	0	0	0	12	0	19	6	1	.708	0	427	47	
S A M P L E	DATE SAMPL DATE RECEIV 12/18/ 01/06/	ED 1	UNIT FIME LUBE FIME 2532 2532	L U B E CHG	F I L T E R CHG	F U E L GC	-	S O O T Vol.	W A T E R Infrar	ed	V I S 40C CS	V I S 100C CS	T A N Total Acid	T B N Total Base	I-R O X I D A	I-R N I T R A	ISO C O D E	M I C R O N	6 M I C R O N	10 M I C R O N	14 M I C R O N	M I C R O N	38 M I C R O N	70 M I C R O N	100 M I C R O N	
SAMP # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																										

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Missing lube or unit time limits the evaluation. No warranty is expressed or