



9060 Zachary Lane N. – Suite #103 – Maple Grove, Minnesota

Xp3 Anti-Friction Case Study - 2016

Trial Dates: April 2016 – November 2016

Vehicle: 2003 GMC Sierra 2500HD

Fuel Type: Diesel

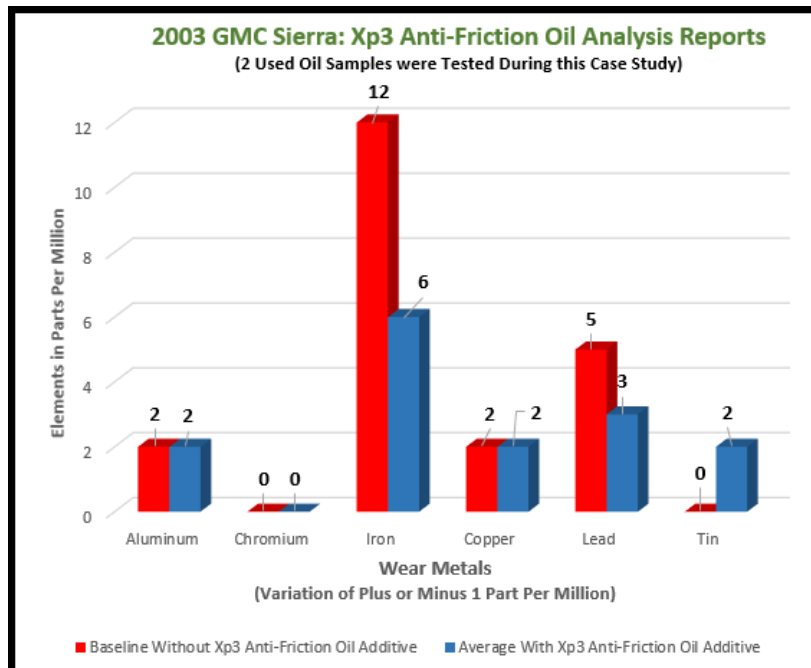
Trial Summary:

This vehicle was already using Xp3 Diesel Fuel Additive for approximately 1 ½ years before starting this trial of Xp3 Anti-Friction Oil Additive. This trial started with a baseline used oil analysis taken on 4/20/2016 to measure the current wear metals and soot prior to using Xp3 Anti-Friction Oil Additive.

On page 2 of this document, notice the soot level in the baseline sample was already low, which is typical when using Xp3 fuel additives. Also, notice the recommended oil change cycle for this sample was 12,000 miles. The oil that was used in this trial is Amsoil’s 15/40 synthetic. After gathering the baseline sample and changing the oil/filter, Xp3 Anti-Friction Oil Additive was added to Amsoil’s 15/40 synthetic oil and the customer also continued using Xp3 Diesel fuel additive.

As seen in the report from the sample taken on 11/3/2016, Xp3 Anti-Friction has a significant impact on two important wear metals (lead and iron) along with an impressive reduction of soot down to 0%. Also, notice that Xp3 Anti-Friction Oil additive extended the life to 13,000 miles which means additional savings with the added protection (see page 3 of this document and the chart below).

Remember, less wear metals and soot in your oil means less money out of your pocketbook!



Testimonials, independent lab data, and/or case-studies in any Xp3 marketing materials are the actual results and/or real-life experiences of those who have used or tested Xp3. Individual results may vary.



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OIL REPORT

LAB NUMBER: H92107 UNIT ID: DO-2
 REPORT DATE: 11/16/2016 CLIENT ID: 102452
 CODE: 141/714 PAYMENT: Sub Acct / PPD (Bul

UNIT
 MAKE/MODEL: Isuzu 6.6L Duramax OIL TYPE & GRADE: Amsoil 15W/40
 FUEL TYPE: Diesel OIL USE INTERVAL: 10,295 Miles
 ADDITIONAL INFO: 2003 GMC Sierra 2500HD

CLIENT
 RICK [REDACTED] PHONE: [REDACTED]
 [REDACTED] FAX: [REDACTED]
 [REDACTED] ALT PHONE: [REDACTED]
 [REDACTED] EMAIL: [REDACTED]

COMMENTS
 RICK: Wear metals are nice and low overall for this GMC. Universal averages show typical wear for this type of engine after around 7,100 miles on the oil. The only metal a little on the high side is lead. That is one to watch since lead typically shows bearing wear, but at just 5 ppm, it's not enough to call a serious bearing problem after one sample. Soot measured 0.1% and no fuel or water was found. Up to 12,000 miles next time should be okay.

ELEMENTS IN PARTS PER MILLION	UNIT / LOCATION AVERAGES		UNIVERSAL AVERAGES			
	MI/HR on Oil	MI/HR on Unit				
	10,295	133,192				
	4/20/2016					
	0 qts					
ALUMINUM	2	2				3
CHROMIUM	0	0				0
IRON	12	9				14
COPPER	2	2				10
LEAD	5	4				2
TIN	0	1				1
MOLYBDENUM	1	31				41
NICKEL	0	0				0
MANGANESE	0	0				0
SILVER	0	0				0
TITANIUM	0	0				0
POTASSIUM	2	1				5
BORON	5	21				115
SILICON	9	8				9
SODIUM	4	5				5
CALCIUM	3679	2474				1910
MAGNESIUM	38	520				474
PHOSPHORUS	1136	1117				1072
ZINC	1392	1359				1255
BARIUM	0	0				0

Values Should Be*

PROPERTIES	Value	Target
SUS Viscosity @ 210°F	76.0	68-80
cSt Viscosity @ 100°C	14.51	12.4-15.8
Flashpoint in °F	465	>410
Fuel %	<0.5	<2.0
Antifreeze %	0.0	0.0
Water %	0.0	0.0
Insolubles %	0.3	<0.6
TBN		
TAN		
ISO Code		

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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OIL REPORT

LAB NUMBER: H92127 UNIT ID: DO-2
 REPORT DATE: 11/17/2016 CLIENT ID: 102452
 CODE: 141/714 PAYMENT: Sub Acct / PPD (Bul

UNIT	MAKE/MODEL: Isuzu 6.6L Duramax	OIL TYPE & GRADE: Amsoil 15W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 10,921 Miles
	ADDITIONAL INFO: 2003 GMC Sierra 2500HD	

CLIENT	RICK [REDACTED]	PHONE: [REDACTED]
	[REDACTED]	FAX: [REDACTED]
	[REDACTED]	ALT PHONE: [REDACTED]
	[REDACTED]	EMAIL: [REDACTED]

COMMENTS RICK: We weren't that concerned about the lead last time, but we'll take lower metals any day of the week. Iron and lead showed very nice improvements this time. Certainly there's nothing here that would point to a problem, as far as we can see. No contaminants were found, and the soot test results measured 0.0%, so this oil is nice and clean. Up to 13,000 miles on the oil would be okay.

	MI/HR on Oil	10,921	UNIT / LOCATION AVERAGES	10,295				UNIVERSAL AVERAGES
	MI/HR on Unit	147,885		133,192				
	Sample Date	11/3/2016		4/20/2016				
	Make Up Oil Added	0 qts		0 qts				
ELEMENTS IN PARTS PER MILLION	ALUMINUM	2	2	2				3
	CHROMIUM	0	0	0				0
	IRON	6	9	12				14
	COPPER	2	2	2				10
	LEAD	3	4	5				2
	TIN	2	1	0				1
	MOLYBDENUM	61	31	1				41
	NICKEL	0	0	0				0
	MANGANESE	0	0	0				0
	SILVER	0	0	0				0
	TITANIUM	0	0	0				0
	POTASSIUM	0	1	2				5
	BORON	36	21	5				115
	SILICON	6	8	9				9
	SODIUM	5	5	4				5
	CALCIUM	1268	2474	3679				1910
	MAGNESIUM	1001	520	38				474
PHOSPHORUS	1097	1117	1136				1072	
ZINC	1325	1359	1392				1255	
BARIUM	0	0	0				0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	79.7	68-80	76.0				
	cSt Viscosity @ 100°C	15.46	12.4-15.8	14.51				
	Flashpoint in °F	440	>410	465				
	Fuel %	<0.5	<2.0	<0.5				
	Antifreeze %	0.0	0.0	0.0				
	Water %	0.0	0.0	0.0				
	Insolubles %	TR	<0.6	0.3				
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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