

CMS COLORADO METALLURGICAL SERVICES

625 EAST 70TH AVE. UNIT 5, DENVER CO 80229 / 303-780-9800

Customer: Spidertrak Off-Road

DATE: May 10, 2010

ATTN: Thomas J. Kingston

PO#: 10419

Condition/Material: Al and Fe

Specification: ASTM-E-1251 / AA 6061 / ASTM-E-415 / ASTM-B-557

LAB#: C-40-165A

Amended 5-11-2010

Part#: XXXXXXXXXX

TENSILE TEST

Aluminum Sample

Identity	Diameter in	Area in ²	Yield Strength		Tensile Strength		Elongation		Fracture
			Load (lb)	lb / in ²	Load (lb)	lb / in ²	in / in	%	Location
Al	0.2520	0.0499	1,555	31,200	1,566	31,400	1.03	3	g

Yield Strength Determined By: 0.2% Offset

[g] Fractured thru gage marks or within specimen width of gage marks.

[X] Information only

CHEMICAL ANALYSIS

Aluminum Sample

		Requirements AA 6061
Silicon	.41	.40-.8
Iron	.14	.7X
Copper	.18	.15-.40
Manganese	<.01	.15X
Magnesium	.93	.8-1.2
Chromium	.04	.04-.35
Nickel	.01	
Zinc	.01	.25X
Titanium	.01	.15X
Lead	<.01	
Tin	<.01	
Beryllium	.02	
Aluminum	REM	REM
Other Elements	.02	.05X
Other Totals	<.05	.15X

[X] Meets Specification Requirements

<u>Iron Sample</u>	
Carbon	.21
Sulfur	.011
Phosphorus	.015
Silicon	.23
Chromium	.75
Nickel	.02
Manganese	.52
Copper	.04
Molybdenum	<.01
Columbium	<.01
Titanium	<.01
Aluminum	.02
Vanadium	<.01
Cobalt	<.01
Tungsten	<.01
Iron	Base

[X] Information Only

HARDNESS:

Iron Sample

HK300

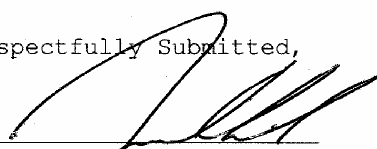
.002"	157	77	HRB
.004"	167	81	HRB
.006"	221	94	HRB
.008"	269	23.5	HRC
.010"	278	25	HRC
.015"	278	25	HRC
Core	292	27.5	HRC

* Decarburization between .006"- .008" in depth.

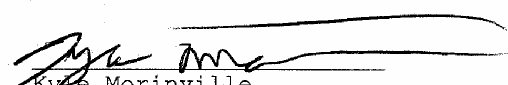
HARDNESS: Iron Sample 26.6, 26.1, 26.0 Average 26.2 HRC

Chemistry Run By: OES
Weight By Percent

Respectfully Submitted,



Jason Schmidt
QA Manager



Kyle Morinville
Mechanical Testing

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