

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2010	ACEXL060.AAD	60.0, 78.0	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Generator Set	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
kW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		CERT	--	--	6.3	0.5	0.12	--	--	--

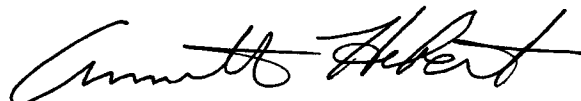
**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

This Executive Order hereby supersedes Executive Order U-R-002-0523 dated July 23, 2009.

Executed at El Monte, California on this 7 day of January 2010.



Annette Hebert, Chief  
 Mobile Source Operations Division

## Engine Model Summary Template

U-R-002-0523-1  
Attachment  
1/16/2011

U-R-002-0523-1

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
ACEXL060.AAD	0930:FR6526	QSK60-G	2922@1800	629	1017.9	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	0930:FR6528	QSK60-G	3251@1800	702	1137	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2769:FR6602	QSK60-G	2922@1800	620	1003.3	NA	NA	NA	DDI,ECM,TC,
ACEXL060.AAD	2769:FR6671	QSK60-G	2922@1800	620	1003.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2769:FR6684	QSK60-G	2922@1800	620	1003.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2770:FR6646	QSK60-G	2922@1800	634	1025.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2770:FR6646	QSK60-G	2332@1500	586	790	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2770:FR6682	QSK60-G	2785@1800	597	966.9	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2770:FR6682	QSK60-G	2255@1500	554	747.2	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3141:FR6644	QSK60-G	2922@1800	616	997	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3143:FR6645	QSK60-G	3315@1800	702	1137	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3178:FR6665	QSK60-G	2705@1500	676	911.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	8595:FR6525	QSK60-G	2922@1800	634	1026.1	NA	NA	NA	DDI,ECM,TC,
ACEXL060.AAD	8595:FR6525	QSK60-G	2334@1500	590	796.3	NA	NA	NA	DDI,ECM,TC,
ACEXL060.AAD	8595:FR6528	QSK60-G	3251@1800	702	1137	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2766:FR6274	QSK60	2700@1900	560	957.0	7840@1500	800	593.08	DDI, ECM,TC,
ACEXL060.AAD	3193:FR6739	QSK78-G	3759@1800	692	1259.4	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3178:FR6665	QSK60-G	2620@1500	656	885.2	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2756:FR4463	QSK19-C	800@2100	395	280	2275@1500	447	226	DDI,ECM,TC,
ACEXL060.AAD	2756:FR4464	QSK19-C	755@1800	428	260	2275@1500	447	226	DDI,ECM,TC,
ACEXL060.AAD	2756:FR4465	QSK19-C	760@2100	375	265	2275@1500	447	226	DDI,ECM,TC,
ACEXL060.AAD	2758:FR6628	QSK38-C	1086@1800	314	381	3590@1350	375	341	DDI,ECM,TC,
ACEXL060.AAD	2758:FR6694	QSK38-C	1200@1800	343	416	3861@1400	398	376	DDI,ECM,TC,
ACEXL060.AAD	2759:FR6631	QSK38-C	920@1200	398	322	4570@1000	454	306	DDI,ECM,TC,
ACEXL060.AAD	2759:FR6639	QSK38-C	1034@1200	447	362	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2760:FR6660	QSK50-C	1675@1800	360	583	5375@1500	489	472	DDI,ECM,TC,
ACEXL060.AAD	2760:FR6708	QSK50-C	2500@1900	508	868	7081@1500	520	702	DDI,ECM,TC,
ACEXL060.AAD	2761:FR6615	QSK50-C	1400@1800	300	486	4705@1300	368	430	DDI,ECM,TC,

**Engine Model Summary Template**

<b>Engine Family</b>	<b>1.Engine Code</b>	<b>2.Engine Model</b>	<b>3.BHP@RPM (SAE Gross)</b>	<b>4.Fuel Rate: mm/stroke @ peak HP (for diesel only)</b>	<b>5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)</b>	<b>6.Torque @ RPM (SEA Gross)</b>	<b>7.Fuel Rate: mm/stroke@peak torque</b>	<b>8.Fuel Rate: (lbs/hr)@peak torque</b>	<b>9.Emission Control Device Per SAE J1930</b>
ACEXL060.AAD	2761:FR6625	QSK50-C	1600@1800	342	554	5040 @1500	374	504	DDI,ECM,TC,
ACEXL060.AAD	2959:FR6624	QSK50-C	1480@1200	480	518	NA	NA	NA	DDI,ECM,TC,
ACEXL060.AAD	3232:FR4515	QSK19-C	800@1900	431	276.1	2350@1700	448	256.6	DDI,ECM,TC,
ACEXL060.AAD	3329:FR6717	QSK50-C	2500@1900	508	868	7081@1500	520	702	DDI,ECM,TC,
ACEXL060.AAD	2761:FR6742	QSK50-C	1500@1800	321	519	4846@1400	369	465	DDI,ECM,TC,
ACEXL060.AAD	3391:FR6736	QSK50-C	1500@1900	306	523.9	5041@1300	384	448.5	"DDI,ECM,TC,
ACEXL060.AAD	3380:FR6735	QSK38-C	1260@1800	356	431.6	4054@1400	414	391.3	"DDI,ECM,TC,
ACEXL060.AAD	3379:FR6734	QSK50-C	2000@1900	400	684	5805@1500	433	584	"DDI,ECM,TC,
ACEXL060.AAD	1244:FR5283	QST30-C	1200@2100	297	420	3751@1400	369	348	DDI,ECM,TC,
ACEXL060.AAD	1244:FR5284	QST30-C	1050@2100	266	377	3414@1300	339	298	DDI,ECM,TC,
ACEXL060.AAD	1244:FR5285	QST30-C	950@2100	244	346	3089@1300	311	273	DDI,ECM,TC,
ACEXL060.AAD	1244:FR5286	QST30-C	1050@1800	308	374	3414@1300	340	298	DDI,ECM,TC,
ACEXL060.AAD	1244:FR5287	QST30-C	1000@1800	291	353	3414@1300	340	298	DDI,ECM,TC,
ACEXL060.AAD	1244:FR5289	QST30-C	850@1800	250	304	2800@1300	289	253	DDI,ECM,TC,
ACEXL060.AAD	1244:FR5291	QST30-C	1120@2100	278	394.3	3500@1400	336	316.9	DDI,ECM,TC,
ACEXL060.AAD	2139:FR5281	QST30-C	1200@2100	297	421	3751@1400	365	345	DDI,ECM,TC,
ACEXL060.AAD	2139:FR5282	QST30-C	1050@2100	266	377	3414@1300	339	298	DDI,ECM,TC,
ACEXL060.AAD	2139:FR5301	QST30-C	1050@1800	295	357.7	3141@1300	333	291.8	DDI,ECM,TC,
ACEXL060.AAD	1773:FR6508	QSK60-C	2000@1800	425	688	6169@1500	439	592	DDI,ECM,TC,
ACEXL060.AAD	1773:FR6509	QSK60-C	1944@1800	416	669	6169@1500	439	592	DDI,ECM,TC,
ACEXL060.AAD	1773:FR6513	QSK60-C	2500@1900	510	871.2	7257@1500	523	705.9	DDI,ECM,TC,
ACEXL060.AAD	2763:FR6619	QSK60-C	2250@1800	474	767	7257@1500	517	698	DDI,ECM,TC,
ACEXL060.AAD	2766:FR6613	QSK60-C	2000@1800	428	693.5	6169@1500	448	603.7	DDI,ECM,TC,
ACEXL060.AAD	2766:FR6614	QSK60-C	1944@1800	411	665.8	6169@1500	445	600.7	DDI,ECM,TC,
ACEXL060.AAD	2766:FR6629	QSK60-C	2500@1900	519	886.0	7256@1500	539	727.3	DDI,ECM,TC,
ACEXL060.AAD	8593:FR6471	QSK60-C	2700@1900	542	926	7840@1500	561	757	DDI,ECM,TC,
ACEXL060.AAD	8593:FR6505	QSK60-C	2500@1900	502	858	7257@1500	518	698	DDI,ECM,TC,
ACEXL060.AAD	8593:FR6506	QSK60-C	2250@1800	473	765	7257@1500	529	713	DDI,ECM,TC,

## Engine Model Summary Template

U-R-002-0523-1

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
ACEXL060.AAD	3451:FR6746	QSK60-C	2500@1900	517	882.8	7257@1500	537	725.6	"DDI,ECM,TC,
ACEXL060.AAD	1485:FR4446	QSK19-G	850@1500	569	288	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	1485:FR4446	QSK19-G	897@1800	517	331.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	1485:FR4451	QSK19-G	811@1500	556	281	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	1485:FR4451	QSK19-G	850@1800	500	304	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	1485:FR4452	QSK19-G	755@1500	522	264	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	1485:FR4452	QSK19-G	780@1800	457	277.1	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6606	QSK50-G	1980@1500	518	698.2	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6606	QSK50-G	2220@1800	480	777.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6621	QSK50-G	1878@1500	496	669.2	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6621	QSK50-G	2090@1800	447	723.9	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6667	QSK50-G	1689@1500	449	605.2	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6667	QSK50-G	1872@1800	406	657.8	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6692	QSK50-G	2220@1800	480	777.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6692	QSK50-G	1980@1500	518	698.2	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6726	QSK50-G4	2220@1800	497	805	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2771:FR6726	QSK50-G4	1980@1500	517	698	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2912:FR6622	QSK50-DR	1480@1200	480	518	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	2912:FR6622	QSK50-DR	1480@1200	480	518	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3138:FR6641	QSK50-G	2220@1800	483	781.1	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3139:FR6642	QSK50-G	2346@1800	509	823.8	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3140:FR6643	QSK50-G	1980@1500	518	698.2	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3140:FR6643	QSK50-G	2220@1800	480	777.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3140:FR6653	QSK50-G	2120@1500	548	739.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3227:FR6692	QSK50-G	2220@1800	480	777.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3265:FR6697	QSK38-G4	1845@1800	382	618.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3266:FR6698	QSK38-G3	1641@1500	552	558.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3267:FR6699	QSK38-G5	1716@1800	486	590.2	N/A	N/A	N/A	DDI,ECM,TC,

**Engine Model Summary Template**

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
ACEXL060.AAD	3267:FR6699	QSK38-G5	1641@1500	555	561.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3268:FR6700	QSK38-G2	1473@1500	503	509.1	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3268:FR6701	QSK38-G2	1301@1500	442	448	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3268:FR6701	QSK38-G2	1301@1500	442	448	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3302:FR4516	QSK19	850@1500	599	303	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3302:FR4516	QSK19	850@1800	507	308	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3302:FR4517	QSK19-G	897@1800	541	328.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3302:FR4524	QSK19	940@1500	622	315.1	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3377:FR6730	QSK50	2220@1800	480	777.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	8575:FR6552	QSK50-G	2650@1800	570	922.1	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	1175:FR5247	QST30-G	1490@1800	426	517.1	N/A	N/A	N/A	N/A
ACEXL060.AAD	1704:FR5250	QST30-G	1490@1800	426	517.1	N/A	N/A	N/A	N/A
ACEXL060.AAD	1808:FR5253	QST30-G	1239@1800	366	443.9	N/A	N/A	N/A	N/A
ACEXL060.AAD	1818:FR5254	QST30-G	1239@1800	366	443.9	N/A	N/A	N/A	N/A
ACEXL060.AAD	2713:FR5263	QST30-G	1362@1800	373	453.3	N/A	N/A	N/A	N/A
ACEXL060.AAD	2714:FR5264	QST30-G	1362@1800	373	453.3	N/A	N/A	N/A	N/A
ACEXL060.AAD	2716:FR5265	QST30-G	1300@1500	465	470.5	N/A	N/A	N/A	N/A
ACEXL060.AAD	2717:FR5266	QST30-G	1300@1500	465	470.5	N/A	N/A	N/A	N/A
ACEXL060.AAD	2717:FR5269	QST30-G	1400@1500	505	511.1	N/A	N/A	N/A	N/A
ACEXL060.AAD	2718:FR5267	QST30-G	1231@1500	435	440	N/A	N/A	N/A	N/A
ACEXL060.AAD	2719:FR5268	QST30-G	1231@1500	435	440	N/A	N/A	N/A	N/A
ACEXL060.AAD	3197:FR5270	QST30-G	1490@1800	436	517.1	N/A	N/A	N/A	N/A
ACEXL060.AAD	3198:FR5271	QST30-G	1490@1800	436	517.1	N/A	N/A	N/A	N/A
ACEXL060.AAD	3300:FR6709	QSK50-C	2250@1900	464	792	6300@1500	467	630	DDI, ECM, TC,
ACEXL060.AAD	3300:FR6710	QSK50-C	2300@1900	474	810	6514@1500	483	651	DDI, ECM, TC,
ACEXL060.AAD	8587:FR10549	QSX15-G	755@1800	424	257.1	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	8142:FR10441	QSX15-G	755@1800	424	257.1	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3083:FR50043	QSK23-G	1000@1800	567	343	N/A	N/A	N/A	DFI,TC,CAC,

## Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
ACEXL060.AAD	3083:FR50043	QSK23-G	891@1500	572	288	N/A	N/A	N/A	DFI,TC,CAC,
ACEXL060.AAD	2621:FR50045	QSK23-G	1145@1800	628	377	N/A	N/A	N/A	DFI,TC,CAC,
ACEXL060.AAD	3083:FR50061	QSK23-G	1090@1500	664	332	N/A	N/A	N/A	DFI,TC,CAC,
ACEXL060.AAD	3083:FR50063	QSK23-G	1060@1500	669	335	N/A	N/A	N/A	DFI,TC,CAC,
ACEXL060.AAD	2621:FR50047	QSK23-G	1220@1800	647	388	N/A	N/A	N/A	DFI,TC,CAC,
ACEXL060.AAD	2852:FR50049	QSK23-C	950@2100	471	332	2897@1400	562	265	DFI,TC,CAC,
ACEXL060.AAD	2852:FR50057	QSK23-C	860@1800	492	298	2676@1350	518	236	DFI,TC,CAC,
ACEXL060.AAD	2852:FR50051	QSK23-C	860@2100	426	301	2785@1400	530	249	DFI,TC,CAC,
ACEXL060.AAD	2852:FR50055	QSK23-C	950@1800	550	330	2785@1400	542	244	DFI,TC,CAC,
ACEXL060.AAD	2858:FR50059	QSK23-C	760@1800	440	265	2564@1350	495	224	DFI,TC,CAC,
ACEXL060.AAD	2858:FR50053	QSK23-C	760@2100	387	270	2560@1350	495	222	DFI,TC,CAC,
ACEXL060.AAD	3270:FR6704	QSK78-C	3500@1900	633	1217.0	10157@1500	647	981.9	DDI,ECM,TC,
ACEXL060.AAD	3416:FR6751	QSK60-C	2700@1900	550	941.1	7840@1500	558	751	DDI,ECM,TC,
ACEXL060.AAD	3595:FR6827	QSK78-G10	3680@1800	701	1249	N/A	N/A	N/A	DDI,ECM,TC
ACEXL060.AAD	2769:FR6845	QSK60-G	2922@1800	644	1017	N/A	N/A		DDI,ECM,TC
ACEXL060.AAD	3451:FR6831	QSK60-C	3000@1900	630	1052	8439@1500	620	816	DDI,ECM,TC
ACEXL060.AAD	2858:FR50072	QSK23-C	760@2100	387	270	2280@1350	412	210	DFI,TC,CAC,
ACEXL060.AAD	2959:FR6633	QSK50-C	1350 @ 1300	388	471	6014 @ 1000	450.4	405	DDI,ECM,TC,
ACEXL060.AAD	3720:FR6850	QSK78-G11	3705@1800	684	1218	N/A	N/A	N/A	DDI,ECM,TC
ACEXL060.AAD	3659:FR6851	QSK78-G11	3705@1800	684	1218	N/A	N/A	N/A	DDI,ECM,TC
ACEXL060.AAD	3621:FR6839	QSK50-G	2220@1800	474.2	767.6	6933@1500	489.4	660.2	DDI,ECM,TC,
ACEXL060.AAD	3621:FR6841	QSK50-G	2220@1800	460.6	745.5	6933@1500	479.9	647.4	DDI,ECM,TC,
ACEXL060.AAD	3451:FR6792	QSK60-C	2000@1800	422.1	683.3	6570@1500	475.4	641.3	DDI,ECM,TC,
ACEXL060.AAD	3451:FR6796	QSK60-C	1944@1800	409.0	662.1	6169@1500	445.3	600.6	DDI,ECM,TC,
ACEXL060.AAD	3621:FR6839	QSK50-G	2220@1800	491.3	767.6	6933@1500	521.9	660.2	DDI,ECM,TC,
ACEXL060.AAD	3716:FR4555	QSK19-C	800@1900	442.9	283.8	2350@1700	449.7	257.8	DDI,ECM,TC,
ACEXL060.AAD	3451:FR6831	QSK60 SS	3000@1900	615.8	1052.2	8439@1500	605.4	816.6	DDI,ECM,TC,
ACEXL060.AAD	3451:FR6791	QSK60 SS	2700@1900	560.2	957.2	7826@1500	567.7	765.8	DDI,ECM,TC,

**Engine Model Summary Template**

<b>Engine Family</b>	<b>1.Engine Code</b>	<b>2.Engine Model</b>	<b>3.BHP@RPM (SAE Gross)</b>	<b>4.Fuel Rate: mm/stroke @ peak HP (for diesel only)</b>	<b>5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)</b>	<b>6.Torque @ RPM (SEA Gross)</b>	<b>7.Fuel Rate: mm/stroke@peak torque</b>	<b>8.Fuel Rate: (lbs/hr)@peak torque</b>	<b>9.Emission Control Device Per SAE J1930</b>
ACEXL060.AAD	3451;FR6746	QSK60 SS	2500@1900	516.7	882.8	7257@1500	537.9	725.6	DDI,ECM,TC,
ACEXL060.AAD	3451;FR6906	QSK60 SS	2300@1900	473.1	808.3	6711@1500	499.3	673.5	DDI,ECM,TC,
ACEXL060.AAD	3451;FR6792	QSK60 SS	2000@1800	422.1	683.3	6570@1500	475.4	641.23	DDI,ECM,TC,
ACEXL060.AAD	3451;FR6796	QSK60 SS	1944@1800	409	662.1	6169@1500	445.3	600.6	DDI,ECM,TC,
ACEXL060.AAD	3378;FR6829	QSK60 SS	1892@1800	380.9	616.5	6274@1500	464.9	627.1	DDI,ECM,TC,
ACEXL060.AAD	3378;FR6732	QSK60 SS	1782@1900	371.4	634.6	6274@1500	464.9	627.1	DDI,ECM,TC,
ACEXL060.AAD	3451;FR6793	QSK60 SS	1875@1800	401.6	650.1	6169@1500	445.3	600.6	DDI,ECM,TC,
ACEXL060.AAD	3501;FR6773	QSK60 2S	2850@1900	577.1	986	8274@1500	599.7	.809	DDI,ECM,TC,
ACEXL060.AAD	3416;FR6751	QSK60 2S	2700@1900	551.9	943	7840@1500	562.7	759	DDI,ECM,TC,
ACEXL060.AAD	3416;FR6781	QSK60 2S	2250@1800	482.7	781.3	7257@1500	529.5	714.3	DDI,ECM,TC,
ACEXL060.AAD	3548;FR6782	QSK50 SS	1600@1800	334.2	540.9	5041@1500	365.3	492.7	DDI,ECM,TC,
ACEXL060.AAD	3391;FR6736	QSK50 SS	1500@1900	306.6	523.9	5041@1300	383.6	448.5	DDI,ECM,TC,
ACEXL060.AAD	3548;FR6790	QSK50 SS	1500@1800	316.5	512.3	4846@1400	341	429.3	DDI,ECM,TC,
ACEXL060.AAD	3548;FR6795	QSK50 SS	1400@1800	300.6	486.5	4705@1300	364.1	422.5	DDI,ECM,TC,
ACEXL060.AAD	3728;FR6890	QSK50 2S	2500@1900	504.5	862	7081@1500	519.7	701	DDI,ECM,TC,
ACEXL060.AAD	3728;FR6889	QSK50 2S	2300@1900	471.1	805	6514@1500	481.9	650	DDI,ECM,TC,
ACEXL060.AAD	3728;FR6888	QSK50 2S	2250@1900	459.4	785	6300@1500	465.6	628	DDI,ECM,TC,
ACEXL060.AAD	3379;FR6734	QSK50 2S	2000@1900	400.3	684	5805@1500	432.9	584	DDI,ECM,TC,
ACEXL060.AAD	3379;FR6794	QSK50 2S	1675@1800	356.5	577	5375@1500	402.6	543	DDI,ECM,TC,
ACEXL060.AAD	3380;FR6735	QSK38	1260@1800	355.5	431.6	4054@1400	414.4	391.3	DDI,ECM,TC,
ACEXL060.AAD	3380;FR6779	QSK38	1200@1800	342.8	416.2	3681@1400	394.5	372.5	DDI,ECM,TC,
ACEXL060.AAD	3380;FR6780	QSK38	1086@1800	311.8	378.5	3590@1350	374.2	340.7	DDI,ECM,TC,
ACEXL060.AAD	3242;FR4551	QSK19	800@2100	395.4	280	2275@1500	437.1	221.1	DDI,ECM,TC,
ACEXL060.AAD	3716;FR4555	QSK19	800@1900	442.9	283.8	2350@1700	449.7	257.8	DDI,ECM,TC,
ACEXL060.AAD	3242;FR4549	QSK19	760@2100	377.6	267.4	2275@1500	450	227.6	DDI,ECM,TC,
ACEXL060.AAD	3242;FR4511	QSK19	755@1800	427.2	259.3	2275@1500	439.7	222.4	DDI,ECM,TC,
ACEXL060.AAD	3240;FR4510	QSK19	675@1800	411.9	250	2200@1500	460.6	233	DDI,ECM,TC,
ACEXL060.AAD	3666;FR4550	QSK19	506@1800	321.3	195	2032@1300	414.9	181.9	DDI,ECM,TC,



## Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
ACEXL060.AAD	2754;FR4468	QSK19	700@1800	423.4	257	2250@1500	460.6	233	DDI,ECM,TC,
ACEXL060.AAD	2755;FR4501	QSK19	600@2000	336.6	227	1950@1500	419.1	212	DDI,ECM,TC,
ACEXL060.AAD	3570;FR 6786	QSK38-G	1300@1500	430.3	435.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3570;FR 6787	QSK38-G	1470@1500	488.6	494.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3571;FR 6788	QSK38-G	1641@1500	546.9	553.3	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3572;FR 6789	QSK38-G	1845@1800	513.9	623.9	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3573;FR 6797	QSK38-G	1715@1800	486.4	590.5	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3583;FR 6816	QSK60-G	3280@1800	693	1121.8	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3621;FR 6832	QSK50-G	1872@1800	390.8	632.5	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3621;FR 6833	QSK50-G	2090@1800	375.6	707.9	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3621;FR 6834	QSK50-G	2090@1800	375.6	707.9	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3623;FR 6835	QSK50-G	2220@1800	471.2	762.7	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3624;FR 6836	QSK50-G	2346@1800	499.2	808.1	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3625;FR 6837	QSK50-G	2120@1500	440.2	712.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3622;FR 6838	QSK50-G	2220@1800	474.2	767.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3622;FR 6840	QSK50-G	2220@1800	474.2	767.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3622;FR 6878	QSK50-G	2220@1800	474.2	767.6	N/A	N/A	N/A	DDI,ECM,TC,
ACEXL060.AAD	3621;FR 6879	QSK50-G	2220@1800	474.2	767.6	N/A	N/A	N/A	DDI,ECM,TC,