



DYNO TEST REPORT

DATE	2-Mar-21	W/O #	43413
CUSTOMER	GLADIATOR	SERIAL #	NO63SH32
MAKE	DETROIT 40 SERIES	ARR #	700
MODEL	DTA466E	Idle / Max Speed (rpm)	2350 182
UNIT/RIG #		HP @ Rated Speed	0
TESTED BY	SAM TAHA	INSPECTED BY	

PRE-START INSPECTION					
PRIME LUBE OIL SYSTEM	NO	ADJUST VALVES	YES	ADJUST GOVERNOR	YES
PRIME FUEL SYSTEM	NO	TIME INJECTION	NO	ADJUST RACKS	NO
PRIME COOLING SYSTEM	NO				

CHECK AND INSPECT		COMMENTS
CHECK OIL AT ROCKER ARMS	NG	
INSPECT FOR LUBE OIL LEAKS	NG	
INSPECT FOR FUEL LEAKS	NG	
INSPECT FOR WATER LEAKS	NG	

OIL PRESS@IDLE	22	LOW IDLE RPM	700
FUEL PRESS@IDLE	46	CCP	1/2 TO 3/4

HOT SET			
LOW IDLE RPM		HIGH IDLE RPM	THERM OPEN
OIL PRESS@IDLE		FUEL PRESS@IDLE	
OIL PRESS@HIGH IDLE		FUEL PRESS@HIGH IDLE	
VALVE SET	INTAKE	OVERSPEED - R.P.M.	
SPECS.	EXHAUST	OVERSPEED - OPERATION	
TIMING (DIMENSION)		INJECTOR SET SPECS.	0

TEST DATA										
TIME (minutes)	81.36	24.67	1.47	1.2	4.51	0.63	4.01	0.33	0.67	
SPEED (rpm)	2115	2164	2190	2190	2141	1581	1987	1983	2225	
TORQUE (ft-lbs)	127.78	124.66	249.38	386.75	382.99	314.87	429.12	472.09	413.18	
POWER (HP)	51.46	51.36	103.99	161.27	156.13	94.78	162.35	178.25	175.04	
FUEL CONS (cc/min)	0	0	0	0	0	0	0	0	0	
MAN PRESS (psi) L	0.18	0.17	0.18	0.18	0.18	0.17	0.18	0.18	0.18	
MAN PRESS (psi) R	2.51	2.68	6.97	13.48	11.22	0.24	12.65	13.76	16.6	
FUEL PRESS (psi)	52.54	52.02	52.9	52.54	53.06	50.62	52.47	52.79	52.75	
OIL PRESS (psi)	61.63	59.81	58.78	57.54	56.12	53.6	54.53	54.32	54.73	
EXHAUST TEMP(F) L	101.97	100.42	97.16	95.14	87.56	86.54	83.15	82.8	82.62	
EXHAUST TEMP (F) R	474.45	464.76	585.03	576.78	669.3	807.31	718.8	755.31	793.61	
COOLANT TEMP (F)	164.47	178.05	185.97	186.1	189.58	192.69	184.9	184.24	188.22	
OIL TEMP (F)	72.42	81.05	79.03	80.95	84.57	85.23	90.77	91.15	91.25	
MAN TEMP (F) L	*****	*****	*****	*****	*****	*****	*****	*****	*****	
MAN TEMP(F) R	*****	*****	*****	*****	*****	*****	*****	*****	*****	
FUEL TEMP (F)	32	32	32	32	32	32	32	32	32	
TOTAL TEST TIME (MIN)	125.19	TOTAL TEST TIME (HRS)				2.0865				

COMMENTS:

HOOK UP TO RUN.
 ENGINE WAS CONVERTED TO RUN FROM 12 TO 24V
 HAD WAJAX COME TO GET THROTTLE WORKING
 TEST UNIT UP TO 182 HP
 ENGINE TESTED GOOD.
 FINISH TEST AND UNHOOK OFF DYNO .



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CUSTOMER	GLADIATOR	SERIAL #	NO63SH32	
MAKE	DETROIT 40 SERIES	ARR #	700	
MODEL	DTA466E	Idle / Max Speed (rpm)	2350	182
UNIT/RIG #		HP @ Rated Speed	0	
TESTED BY	SAM TAHA	INSPECTED BY		

PRE-START INSPECTION					
PRIME LUBE OIL SYSTEM	NO	ADJUST VALVES	YES	ADJUST GOVERNOR	YES
PRIME FUEL SYSTEM	NO	TIME INJECTION	NO	ADJUST RACKS	NO
PRIME COOLING SYSTEM	NO				

BASIC RUN-IN INSPECTION			
CHECK AND INSPECT		COMMENTS	
CHECK OIL AT ROCKER ARMS	NG	0	
INSPECT FOR LUBE OIL LEAKS	NG	0	
INSPECT FOR FUEL LEAKS	NG	0	
INSPECT FOR WATER LEAKS	NG	0	

OIL PRESS@IDLE	22	LOW IDLE RPM	700
FUEL PRESS@IDLE	46	CCP	1/2 TO 3/4

HOT SET			
LOW IDLE RPM		HIGH IDLE RPM	THERM OPEN
OIL PRESS@IDLE		FUEL PRESS@IDLE	
OIL PRESS@HIGH IDLE		FUEL PRESS@HIGH IDLE	
VALVE SET INTAKE		OVERSPEED - R.P.M.	
SPECS. EXHAUST		OVERSPEED - OPERATION	
TIMING (DIMENSION)		INJECTOR SET SPECS.	0

TEST DATA									
TIME (minutes)	0.2	0.7	0.43	0.77	4.24	0	0	0	0
SPEED (rpm)	2027	2250	2142	2053	2269	0	0	0	0
TORQUE (ft-lbs)	466.82	353.34	448.66	443.14	314.5	0	0	0	0
POWER (HP)	180.35	151.37	182.98	173.22	135.87	0	0	0	0
FUEL CONS (cc/min)	0	0	0	0	0	0	0	0	0
MAN PRESS (psi) L	0.18	0.18	0.18	0.18	0.18	0	0	0	0
MAN PRESS (psi) R	14.91	13.26	16.4	15.38	11.79	0	0	0	0
FUEL PRESS (psi)	52.83	53	52.81	52.66	52.93	0	0	0	0
OIL PRESS (psi)	54.03	54.46	53.89	53.48	54.12	0	0	0	0
EXHAUST TEMP(F) L	82.31	81.91	81.74	81.25	78.96	0	0	0	0
EXHAUST TEMP (F) R	809.35	823.75	847.14	881.84	860.65	0	0	0	0
COOLANT TEMP (F)	193.06	189.28	190.8	191	188.65	0	0	0	0
OIL TEMP (F)	91.22	91.57	91.78	92.33	94.24	0	0	0	0
MAN TEMP (F) L	*****	*****	*****	*****	*****	0	0	0	0
MAN TEMP(F) R	*****	*****	*****	*****	*****	0	0	0	0
FUEL TEMP (F)	32	32	32	32	32	0	0	0	0
TOTAL TEST TIME (MIN)	125.19		TOTAL TEST TIME (HRS)			2.0865			

COMMENTS: