

ENGINE GENSET

EQUIP NUM: GEN 1

SERIAL NUMBER: 1HZ

H430-54211-0214

LABEL#: QC

SAMPLE SHIP TIME (days) : 10

API ENGINEERING

LOCATION: BSMG

RECEIVED DATE: 29-Jul-24

CAT 3516B

No Action Required

UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Interp By: Tony Finney

Interpreted On: 29-Jul-24

SAMPLE INFORMATION

	19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
Sampled Date	19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
Sample Id	H430-54211-0214	H190-52215-4509	H190-52181-4220	H190-51294-4009
Lab Date	29-Jul-24	03-Aug-22	30-Jun-22	21-Oct-21
Meter [Hr]	3653	3579	3759	3519
Comp Meter [Hr]	3653	3579	3759	3519
Meter On Fluid		66	246	6
Fluid Brand		CATDEOULS	CATDEOULS	CATDEOULS
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type				
Fluid Change	U	N	U	N
Filter Change	U	N	U	N
Kidney Loop	U	U	U	U
PM Level				None
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION / CONTAMINATION

		19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	12.90	13.90	12.90	12.6

INFRARED (UFM) ASTM E2412

		19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
ST	Soot	0	0	1	0
OXI	Oxidation	14	15	20	16
SUL	Sulfur Products	21	23	25	20
NIT	Nitration	7	6	8	5

WEAR LEVELS / ADDITIVES

		19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	1	0	1	4
Fe	Iron	4	2	3	1
Cr	Chromium	0	0	0	0
Al	Aluminum	0	0	0	0
Pb	Lead	0	0	1	0
Sn	Tin	0	0	0	0
Si	Silicon	4	4	3	12
Na	Sodium	11	4	4	0
K	Potassium	0	0	0	0
Mo	Molybdenum	40	37	22	123
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	1
V	Vanadium	1	1	1	0
Ca	Calcium	1648	1559	1714	1518
P	Phosphorus	916	866	988	828
Zn	Zinc	980	910	1024	740
Mg	Magnesium	868	838	722	461
Ba	Barium	0	0	0	0
B	Boron	173	172	82	59
Sb	Antimony	0	1	0	0

WATER

		19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
W	Water	N	N	N	N

ANTIFREEZE

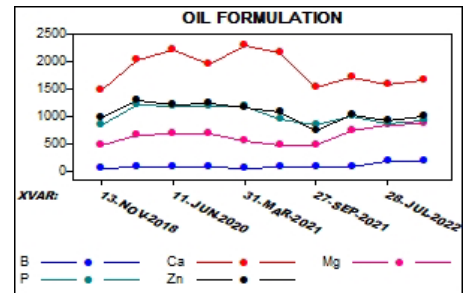
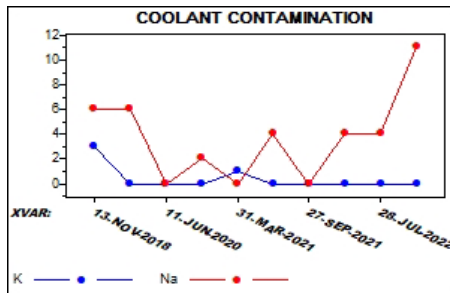
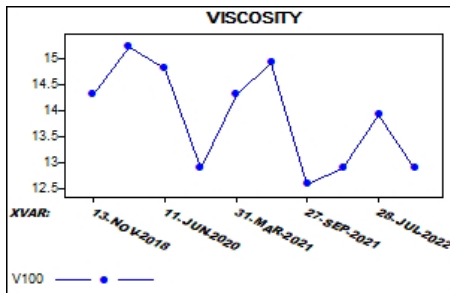
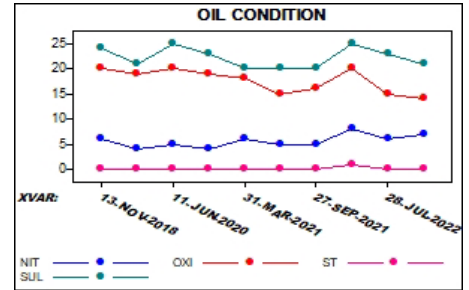
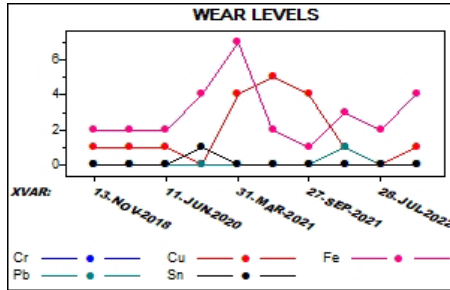
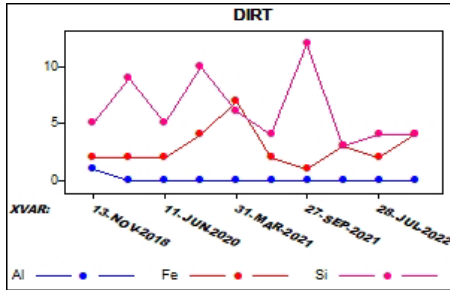
		19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
A	Antifreeze	N	N	N	N

FUEL

		19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
F	Fuel	N	N	N	N

FUEL CONTENT (%) ASTM D3524

		19-Jul-24	28-Jul-22	27-Jun-22	27-Sep-21
PFc	Percent Fuel	4.75	0.71	5.21	0.56



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>

ORDER INVOICE WITH ENGINEERING BREAKDOWN [1HZ]

JULY 24, 2024

(1HZ)-ENGINE (4FN)-GENERATOR (BPD)-GENSET

For Help Desk Phone Numbers [Click here](#)

Caution Ordering Parts from TMI Order Invoice with Engineering Breakdown

Order Invoice with Engineering Breakdown information is provided by the orders system, once you click breakdown of a part, TMI pulls the information from the Engineering Data System (EDS).

EDS is not a manufacturing bill of material system but a engineering part in effect system. TMI uses the built date and calls EDS to pull the part in effect at that time.

Recently, TMI added an as manufactured tab. This tab provides the consist as reported from the engine factory. This data is limited but growing for new manufactured engines. To see an example enter "AT400559"

As-Manufactured tab is refreshed with correct data. The history records as well as the current data with wrong details are deleted. From 28th march 2019, TMI is maintaining only current data which possesses correct details.

To validate you are ordering a correct part, TMI encourages you to contact Morton Parts. 800-566-7782 or <https://pscrmwebforms.cat.com/GDSNquickentry.aspx>

The below option will email full breakdown of the serial number

Excel PDF

FullBreakDown

Sales Model: 3516 B Invoice Number: GEZR 100267 Dealer: Z402 S.O. Number: JJH1700 Invoice Date: 2001-10-25


[Feature Code](#)

[Part Numbers](#)


[Help](#)

Feature Codes [Top](#)

23 results found, displaying 1 to 23



Reference Number	Eng Chg	Quantity	ASM	LESS		Set Type	Reference Drawing	Description
1471186	F	1	I					CONTROL GP - BREAKER
1364703	F	1	I					MOUNTING GP - BREAKER
1259326	F	1	I					TRANSFORMER POTENTIAL(480:120)
1981905	F	1	I					PAINT - FINISH
1528793	F	1	I	L				INSULATION GROUP
5N9597	F	1	I	L				VOLTAGE INDICATOR 480V, 60HZ
GG0001	F	1	I					2628 BHP 1825 GEN KW W/F 60 HZ
1471170	F	1	I	L				PANEL GP
516DE16	F	1	I				Drawing...	3516B POWER MODULE
ELEDUPR	F	1	I					DUPLEX RECEPTACLE - 120 VAC
ELEBLCA	F	1	I					BOTTOM LOAD CABLE ACCESS
FULEXFF	F	1	I					EXTERIOR FUEL FILL
DECRPOW	F	1	I					RENTAL POWER DECAL
MNT403A	F	1	I					UNDERCARRIAGE AR.-40 FT-3 AXLE
PRIPLUS	F	1	I					PRIME PLUS 10% POWER APPL.
EMCENGU	F	1	I					ENGLISH DISPLAY UNITS
LUBOMU3	F	1	I					LUBE OIL MAKE-UP SYSTEM
FULTRS5	F	1	I					1250 GAL DW FUEL TRANSFER SYS
MSEPGGN	F	1	I					GENERAL EPG

23 results found, displaying 1 to 23

Reference Number	Eng Chg	Quantity	ASM	LESS 	Set Type	Reference Drawing	Description
60H0480	F	1	I			Drawing...	60HZ 480 VOLTS
CERTIFD	F	1	I				EPA & CARB NON-ROAD EMIS. CERT
SOUNDAT	F	1	I				SOUND ATTENUATED
XQRENTL	F	1	I				XQ RENTAL POWER

Part Numbers [Top](#)

148 results found, displaying 1 to 148

Reference Number	Eng Chg	Quantity	ASM	LESS 	Set Type	Description	Reference Drawing	SIS Part Diagram 
1471190	01	1	I			PARALLELING GP - D		View Diagram
1310341	01	1	I			METER GP		View Diagram
1906718	00	1	I			GANEL GP (VPAP)		View Diagram
1498781	02	1	I			HEATER GROUP		View Diagram
1941548	00	1	I			PANEL AR - SWGR		View Diagram
1259976	00	1	I			RELAY GP.		View Diagram
1838051	03	1	I			PANEL GP - ELEK		View Diagram
1838050	00	1	I			PANEL GP - ELEK		View Diagram
1974496	00	1	I			INSTRUCTIONS - SWGR		View Diagram
1471186	F	1	I			CONTROL GP - BREAKER		View Diagram
1924902	01	1	I			INSULATION GP		View Diagram
1920788	00	1	I			DRAIN GP - COOLANT		View Diagram
1967263	01	1	I			DIMENSIONS - GENERAL		View Diagram
1967266	01	1	I			INSTRUCTIONS - CUTS		View Diagram
1783323	01	1	I			BATTERY GP. - A		View Diagram
1941581	00	1	I			RELAY GP - POWER		View Diagram
1977161	00	1	I			PANEL AR- SWGR		View Diagram
1216203	06	1	I			REGULATOR GP		View Diagram
1934621	01	1	I			PANEL AR		View Diagram
1725645	07	1	I			PANEL GP		View Diagram
1366168	02	1	I			PANEL AR - UTILITY		View Diagram
1293164	03	1	I			ENCLOSURE AS - EXT		View Diagram
1364703	F	1	I			MOUNTING GP - BREAKER		View Diagram
1259326	F	1	I			TRANSFORMER POTENTIAL(480:120)		View Diagram
1631462	00	1	I			SENSOR GP - SCAC TEMP.		View Diagram
1981905	F	1	I			PAINT - FINISH		View Diagram
1528793	F	1	I	L		INSULATION GROUP		View Diagram
3L0456		1	I	L		PROCEDURE - DVR PROG AND TEST		View Diagram
0P8707		1	I			QUOTE NO.-		View Diagram
5N9597	F	1	I	L		VOLTAGE INDICATOR 480V, 60HZ		View Diagram
GG0001	F	1	I			2628 BHP 1825 GEN KW W/F 60 HZ		
0K2944	-	1	I			1960 BKW (2628 BHP) @ 1800 RPM		View Diagram
1305379	02	1	I	L		PARALLELING GP		View Diagram
1340959	06	1	I	L		BUS GP		View Diagram
1471170	F	1	I	L		PANEL GP		View Diagram
LA3460	00	1	I			3516B POWER MODULE.	Drawing...	
516DE16	F	1	I			3516B POWER MODULE		View Diagram
2P9868	04	1	I			ANTIFREEZE-BULK - 1 LITER		View Diagram
3L0414		1	I			SINGLE BEARING GEN ALIGN- 3500		View Diagram
3N4905	03	1	I			HOSE AS.		View Diagram
4P7072	00	1	I			FLANGED CONNECTION	Drawing...	View Diagram
5N2438	05	1	I			FLEXIBLE FUEL LINES	Drawing...	View Diagram
5N9597		1	I			VOLTAGE INDICATOR 480V, 60HZ		View Diagram
5N9635		1	I			EMISSIONS CERTIFIED		View Diagram
5N9955		1	I			JWH CONN IND - 120V, 60HZ		View Diagram
5P2506	00	1	I			LITERATURE - ENGLISH	Drawing...	View Diagram
5P2586	03	1	I			OIL - BULK - ONE LITER		View Diagram
7C0527	02	1	I			ELECTRIC STARTING MOTOR LH	Drawing...	View Diagram
7E2858	00	1	I			ALTERNATOR GP - A		View Diagram
7E4836	05	1	I			MOUNTING GP - ALT		View Diagram

7E6247	03	1	I	JACKET WATER HEATER		View Diagram
7N6782	08	1	I	RESTRICTION INDICATOR	Drawing...	View Diagram
7W5780	04	1	I	GUARD GROUP - BELT		View Diagram
7W9704	05	1	I	PUMP GP - SUMP (W/O HOSES)		View Diagram
8N9639	04	1	I	GUARD GP-DAMPER		View Diagram
1077361	01	1	I	DRIVE GP - ACC.	Drawing...	View Diagram
1131581	00	1	I	CLEANER GP - AIR		View Diagram
1151065	02	1	I	FUEL PRIMING PUMP LH	Drawing...	View Diagram
1153613	03	1	I	MOUNTING GP - AIR		View Diagram
1157841	11	1	I	OIL FILTER LH	Drawing...	View Diagram
1157842	06	1	I	LH FUEL FILTER		View Diagram
1167004	02	1	I	REGULATOR GP - B		View Diagram
1218856	06	1	I	CONNECTION GP-G		View Diagram
1226590	00	1	I	TRANSFORMER-CURRENT		View Diagram
1259326	01	1	I	TRANSFORMER POTENTIAL(480:120)		View Diagram
1294337	06	1	I	CONTROL GP (GSC)		View Diagram
1305653	03	1	I	PANEL GP-CONT-A		View Diagram
1312837	03	1	I	PANEL GP - CONTROL - A		View Diagram
1312960	02	1	I	RELAY GROUP		View Diagram
1340061	04	1	I	WIRING GP - ENGINE - RH		View Diagram
1343159	04	1	I	MTG GP-JW HEATER		View Diagram
1343160	03	1	I	MTG GP-JW HEATER	Drawing...	View Diagram
1353319	03	1	I	CHARGER GP		View Diagram
1362054	02	1	I	CONT GP		View Diagram
1402665	01	1	I	DISPOSAL GP - FUME		View Diagram
1411598	01	1	I	SWITCH GP - DISCONNECT		View Diagram
1411809	01	1	I	BOX GP-BASIC		View Diagram
1416413	00	1	I	RAIL GP-SLIDE (3516)		View Diagram
1441952	01	1	I	GENERATOR AR - POWER		View Diagram
1452911	05	1	I	BOX GP		View Diagram
1471165	09	1	I	SWITCHGEAR AR		View Diagram
1492477	00	1	I	SUPPORT AS - REINFORCEMENT		View Diagram
1498779	02	1	I	HEATER GP		View Diagram
1515673	01	1	I	CONNECTION GROUP		View Diagram
1519265	00	1	I	HARNES ASSEMBLY-WIRING		View Diagram
1519266	02	1	I	HARNES ASSEMBLY-WIRING		View Diagram
1522876	02	1	I	HARNES AS		View Diagram
1530180	01	1	I	INSTALLATION AS		View Diagram
1530191	04	1	I	INSTALLATION AR-GENERATOR		View Diagram
1537726	03	1	I	CONTROL GROUP		View Diagram
1551390	00	1	I	MOUNTING GROUP		View Diagram
1551701	00	1	I	MOUNTING GP		View Diagram
1612491	00	1	I	RAIL GP-ENGINE,GEN,FLARED		View Diagram
1706481	00	1	I	PANEL GP		View Diagram
1783323	01	1	I	BATTERY GP. - A		View Diagram
1789030	01	1	I	LITERATURE BOX		View Diagram
1792318	00	1	I	HARNES GP - (AC/DC)		View Diagram
1797264	00	1	I	PACKAGING ARRANGEMENT		View Diagram
1831201	00	1	I	MUFFLER GP		View Diagram
1879703	01	1	I	RADIATOR GP		View Diagram
1879756	01	1	I	LOUVER GP		View Diagram
1881765	00	1	I	CONTAINER AR		View Diagram
1883222	00	1	I	LINES GP - WATER		View Diagram
1887945	00	1	I	GENERAL ARRANGEMENT		View Diagram
1889427	00	1	I	PANEL AS		View Diagram
1889442	01	1	I	3516B DITA GEN SET ENGINE AR		View Diagram
1899100	02	1	I	MTG GP - RAD		View Diagram
1900376	01	1	I	LINES GP - VENT		View Diagram
1901328	00	1	I	BAFFLE GP		View Diagram
1902280	01	1	I	SUPPORT GP - LINES		View Diagram
LA3485	00	1	I	DUPLEX RECEPTACLE - 120V		
ELEDUPR	F	1	I	DUPLEX RECEPTACLE - 120 VAC		
1026843	01	1	I	DUPLEX RECEPTACLE - 120 VAC		View Diagram
LA3486	00	1	I	BOTTOM LOAD CABLE ACCESS		
ELEBLCA	F	1	I	BOTTOM LOAD CABLE ACCESS		
1131217	00	1	I	BOTTOM LOAD CABLE ACCESS		View Diagram
LA3493	00	1	I	EXTERIOR FUEL FILL		
FULEXFF	F	1	I	EXTERIOR FUEL FILL		
1644580	01	1	I	EXTERIOR FUEL FILL		View Diagram

LA2977	01	1	I	RENTAL POWER DECALS	
DECRPOW	F	1	I	RENTAL POWER DECAL	
1422386	01	1	I	DECALCOMANIA GP (RENTAL)	View Diagram
LA2990	04	1	I	UNDERCARRIAGE AR-40 FT-3 AXLE	
MNT403A	F	1	I	UNDERCARRIAGE AR.-40 FT-3 AXLE	
9Y1385	01	1	I	UNDERCARRIAGE AR.-40 FT-3 AXLE	View Diagram
9Y1392	02	1	I	JACK STAND	View Diagram
1515714	00	1	I	LADDER AS	View Diagram
1569155	01	1	I	HANDLE AS	View Diagram
9Y8163		1	I	PRIME + 10% POWER APPLICATION	View Diagram
PRIPLUS	F	1	I	PRIME PLUS 10% POWER APPL.	
EMCENGU	F	1	I	ENGLISH DISPLAY UNITS	
1214713	00	1	I	ENGLISH DISPLAY UNITS	View Diagram
LA3468	00	1	I	LUBE OIL MAKEUP SYSTEM	Drawing...
LUBOMU3	F	1	I	LUBE OIL MAKE-UP SYSTEM	
5N4659	06	1	I	OIL LEVEL REGULATOR	Drawing...
1026845	02	1	I	LUBE OIL MAKE-UP SYSTEM	View Diagram
1026848	00	1	I	LOW OIL LEVEL ALARM	View Diagram
LE2000	00	1	I	DOUBLE WALL 1250 GALLON FUEL T	
FULTRS5	F	1	I	1250 GAL DW FUEL TRANSFER SYS	
1469839	08	1	I	PANEL AS-CONTROL-FUEL TRANSFER	View Diagram
1475690	03	1	I	TANK GP-FUEL(1250GALLON)	View Diagram
1469053	02	1	I	TANK GROUP-FUEL(1250 GALLON)	View Diagram
0V1065		1	I	END USE: GENERAL EPG	View Diagram
MSEPGGN	F	1	I	GENERAL EPG	
60H0480	F	1	I	60HZ 480 VOLTS	View Diagram
CERTIFD	F	1	I	EPA & CARB NON-ROAD EMIS. CERT	
SOUNDAT	F	1	I	SOUND ATTENUATED	
XQRENTL	F	1	I	XQ RENTAL POWER	

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Cat Electronic Technician 2020A v1.0

Product Status Report

7/19/2024 12:20 PM

Product Status Report

Parameter	Value
Engine Serial Number	1HZ
Equipment ID	TACOMA G1
Comments	

PL1000E #2

Parameter	Value
ECM Part Number	3461903-00
ECM Serial Number	0630B061TE
Personality Module Part Number	3559210-00
Personality Module Release Date	DEC09
Personality Module Description	PL1000E Communication ECU

Current Totals - PL1000E #2

Description	Value	Unit
ECM Lifetime Clock	110765	hours

Configuration - PL1000E #2

Description	Value	Unit
CAT Data Link Module Identifier Configuration	PL1000 #2	
Ethernet Media Access Control (MAC) Address	00:0A:75:00:55:65	
Internet Protocol Host Name	PL1000E	
Internet Protocol (IPv4) Address	172.21.15.194	
Internet Protocol (IPv4) Network Mask	255.255.255.224	
Network Default Gateway Internet Protocol (IPv4) Address	172.21.15.192	
Web Server Administrator Password	admin	
Dynamic Host Configuration Protocol (DHCP) Enable Status	Disabled	
Modbus #1 Port Selection	Disabled	
ModBus #1 Baud Rate	9600	
ModBus #1 Echo/ No Echo	No Echo	
ModBus #1 Flow Control	None	
ModBus #1 Data Size	8	
ModBus #1 Parity	No Parity	
Modbus #2 Port Selection	Disabled	
ModBus #2 Baud Rate	9600	

ModBus #2 Echo/ No Echo	No Echo	
ModBus #2 Flow Control	None	
ModBus #2 Data Size	8	
ModBus #2 Parity	No Parity	
Modbus #3 Port Selection	Serial Port #4	
ModBus #3 Baud Rate	19200	
ModBus #3 Echo/ No Echo	No Echo	
ModBus #3 Flow Control	None	
ModBus #3 Data Size	8	
ModBus #3 Parity	No Parity	
RS-485 Mode	2-wire	
Modbus TCP Data Link Address	254	

Genset Control #1

Parameter	Value
Module ID	\$58
Application ID	\$60
Data Link ID	\$10

Logged Diagnostic Codes [Diagnostic Clock = 3653 hours] - Genset Control #1

Code	Description	Occ.	First	Last
100- 2	Engine Oil Pressure Sensor : Erratic, Intermittent, or Incorrect	2	3579	3653
110- 2	Engine Coolant Temperature Sensor : Erratic, Intermittent, or Incorrect	2	3579	3653
168- 4	Electrical System Voltage : Voltage Below Normal	1	3653	3653
248- 9	Cat Data Link not communicating	1	3653	3653
269- 4	Sensor Power Supply : Voltage Below Normal	1	3653	3653
590- 9	Engine Control Module : Abnormal Update Rate	2	3579	3653

Active Diagnostic Codes - Genset Control #1

Code	Description
No Active Diagnostic Codes	

3516B Engine - Genset #1 (1HZ)

Parameter	Value
Equipment ID	TACOMA G1
Engine Serial Number	1HZ00318
ECM Serial Number	31200085CD
Personality Module Part Number	3353670-00
Personality Module Release Date	Jul08
Personality Module Description	GEN 3516

Logged Diagnostic Codes [Diagnostic Clock = 3653 hours] - 3516B Engine - Genset #1 (1HZ)

Code	Description	Occ.	First	Last
168- 1	Electrical System Voltage : Low	1	3653	3653

100- 2	Engine Oil Pressure Sensor : Erratic, Intermittent, or Incorrect	1	3636	3636
542- 2	Engine Oil Pressure Sensor - Before Oil Filter : Erratic, Intermittent, or Incorrect	1	3636	3636

Logged Event Codes [Diagnostic Clock = 3653 hours] - 3516B Engine - Genset #1 (1HZ)

Code	Description	Occ.	First	Last
E016	High Engine Coolant Temperature Shutdown	3	3111	3513
E017	High Engine Coolant Temperature Warning	5	3111	3554
E038	Low Engine Coolant Temperature Warning	17	2	2443
E043	Low System Voltage Warning	37	1345	3653
E095	Fuel Filter Restriction Warning	186	2460	3412
E099	Engine Oil Filter Restriction Warning	255	547	3581

Active Diagnostic Codes - 3516B Engine - Genset #1 (1HZ)

Code	Description
No Active Diagnostic Codes	

Current Totals - 3516B Engine - Genset #1 (1HZ)

Description	Value	Unit
Total Time	3653	hours
Total Fuel	360532	gal

Configuration - 3516B Engine - Genset #1 (1HZ)

Description	Value	Unit
Equipment ID	TACOMA G1	
Engine Serial Number	1HZ00318	
Fuel Ratio Control Offset	0	
ECM Serial Number	31200085CD	
Personality Module Part Number	3353670-00	
Personality Module Release Date	Jul08	
FLS	0	
FTS	0	
Rated Engine Speed	1800	rpm
Rated Fuel Position	24.100	mm
Acceleration Delay Time	0	sec
Engine Acceleration Rate	100	rpm/s
Low Idle Speed	900	rpm
Cooldown Speed	810	rpm
Cooldown Duration	0	min
Engine Pre-Lube Duration	0	sec
Crank Duration	0	sec
Maximum Number of Crank Cycles	0	
Crank Terminate RPM	400	rpm
Air Shutoff	Disabled	
Ether Control	Disabled	
Engine Cooling System Config	SCAC (Separate Circuit Aftercooled)	

Fuel Correction Factor	0	%
Cat Data Link #2 Identifier	Engine Control #1	
Cold Cylinder Cutout	Disabled	
Direct Fuel Control Mode	Disabled	
Total Tattletale	4	
Gov. Max. Stability	383	
Gov. Min. Stability	7864	
Governor Gain	1280	
Load Warning Set	40	%

Monitoring System - 3516B Engine - Genset #1 (1HZ)

Description	State	Trip Point	Delay Time
<u>Altitude (atmospheric pressure)</u>			
Moderate Severity (2)	Off	13.3 psi	0 sec
<u>Engine Overspeed</u>			
Least Severe (1)	On	2124 rpm	0 sec
Most Severe (3)	On	2124 rpm	0 sec
<u>High Aftercooler Coolant Temperature</u>			
Least Severe (1)	On	216 Deg F	5 sec
Moderate Severity (2)	Off	225 Deg F	5 sec
Most Severe (3)	On	225 Deg F	5 sec
<u>High Air Filter Restriction Pressure</u>			
Least Severe (1)	On	28.1 " H2O	5 sec
Moderate Severity (2)	Off	28.1 " H2O	5 sec
<u>High Crankcase Pressure</u>			
Least Severe (1)	On	8.0 " H2O	3 sec
Moderate Severity (2)	Off	24.1 " H2O	10 sec
Most Severe (3)	On	14.1 " H2O	3 sec
<u>High Engine Coolant Temperature</u>			
Least Severe (1)	On	216 Deg F	5 sec
Moderate Severity (2)	Off	225 Deg F	30 sec
Most Severe (3)	On	225 Deg F	5 sec
<u>High Engine Oil Filter Restriction Pressure</u>			
Least Severe (1)	On	15 psi	5 sec
<u>High Exhaust Temperature</u>			
Least Severe (1)	On	1393 Deg F	5 sec
Moderate Severity (2)	Off	1393 Deg F	5 sec
<u>High Fuel Filter Restriction Pressure</u>			
Least Severe (1)	On	15 psi	5 sec
<u>Low Engine Coolant Temperature</u>			
Least Severe (1)	On	149 Deg F	5 sec

Low Engine Oil Pressure			
Least Severe (1)	On	None	4 sec
Most Severe (3)	On	None	9 sec
Low System Voltage			
Least Severe (1)	On	20 Volts	10 sec

Injector Codes Calibration - 3516B Engine - Genset #1 (1HZ)

Injector	Code
Injector 1	5735
Injector 2	3522
Injector 3	2867
Injector 4	5405
Injector 5	9805
Injector 6	1447
Injector 7	3967
Injector 8	4400
Injector 9	5501
Injector 10	8701
Injector 11	5620
Injector 12	6616
Injector 13	7821
Injector 14	2210
Injector 15	6505
Injector 16	6720