DISEÑO DE UN EMULADOR PARA DIAGNÓSTICO Y REPARACIÓN DEL SISTEMA DE CONTROL Y MONITOREO ELECTRÓNICO DE MOTORES CUMMINS ISX SIGNATURE

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Abstract—El presente documento muestra el diseño de un emulador para detección de fallas y diagnóstico del estado eléctrico y electrónico del sistema electrónico para motores Cummim ESX. Con interfaz gráfica para interacción de máquina-usuario.

Index Termo-Emulador, arnés, interfaz gráfica,

II. INTRODUCCION

E l. transporte de carga pesada en Colombia es considerado uno de los ostiones principales de la economia, si se tiene en cuenta que le aporta al producto interno bruto aproximadamente un 9%. El crecimiemo vertiginoso de su parque automotor lo debe llevar a replantear estrategias que respondan al crecimiento del sector productivo, para que juntos lleven a Colombia a establecer las reglas de una verdadera competitividad.

Si biem, el gobiermo ha consentido por años un sector que parece ignorar las reglas de juego de la globalidad, tarde o temprano tendrá que asumir los costos de pretender buscar su sostenimiento mediante subsidios coercitivos. Al final del dia deberá ser considerado, desarrollado y gerenciado como una verdadera empresa, por esta razón sus componentes constitutivos primarios, como son los vehículos se les debe dar el carácter de activo productivo y por supuesto con todos los derivados que de éstos emanen.

Se debe garantizar una muy alta disponibilidad de estos activos y como tal es menester y perentorio garantizar una amplia cobertura de servicios tecnológicos que minimien los tiempos muertos y al mismo tiempo los riesgos a que estos activos están sometidos por causas de la informalidad. Las pérdidas por lucro cesante son imputables en un 90% a problemas electrónicos y nos plantea el siguiente interrogante: (Se construye una gran oportunidad de aportur desarrollo tecnológico que mitigue dicho lucro y coadquive con la competitividad de cara a las aperturas venideras?

En la mayoría de los casos cuando se presentan daños en los módulos electrónicos, los conductores y/o dueños de los vehiculos, se dirigen a un taller de mecánica para que allí le arreglen un problema que es electrónico. Se debe educar a estre sector para que cuando se presenten este tipo de fallas no se dirigan a un taller mecánico, debem dirigirse a gente especializada y capacitada en electrónica para que le brinden una solución adecuada e integral a sus problemas eletrónicos.

Cummins mediante un protocolo de comunicación se conecta el módulo y a través un software (llamado INSITE) realiza un scanco pura lecr las fallas que este presente, otra aplicación que posee este software es que realiza una programación al módulo con el fin de resetear cierta información en memorias y procesadores.

El propósito es diseñar un emulador que identifique el estado de:

- Sensores y actuadores.
- Acrosés.
- Middulos.

El emulador al ser conectado al arnés instalado en el vehículo, debe identificar el estado de cada uno de los semores y actuadores del mismo.

También debe realizar purebas al arnés e identificar si hay algún cable en corto que pueda afectar el funcionamiento general del sistema.

Enviar señales para identificar cuál es el dispositivo dañado de acuerdo a la falla que presente el módulo.

II. DESCRIPCIÓN DE FUNCIONAMIENTO DEL MODULO

El módulo de control electrónico (ECM) es el centro de control del sistema. Procesa todas las señales y envía ordenes al sistema de combustible, vehículo, y a los dispositivos de control del motor. El ECM efectúa pruebas de diagnóstico en la mayoría de sus circuitos y activará un código de falla si se detecta un problema en uno de estos circuitos. Junto con el código de falla que identifica al problema, también es almacenada en la memoria una instantánea de los parámetros de operación del motor en el momento de activación de la falla. Los códicos de falla activos causarán que se active una lámpara de diagnóstico para avisar al operador. El ECM puede comunicarse con la berramienta de servicio INSITETM y algunos otros controles del vehículo, tales como transmisiones, sistema de frenado antibloqueo (ABS), reducción automática de desligamiento (ASR), displays de tablero electrónico, etc... a través del nuevo enlace de datos SAE J1939 ó del enlace de datos más antiguo SAE J1708. Algunos vehículos y equipo tendrán redes J1939 que enlazan juntos muchos de los controles inteligentes. Los dispositivos de control del vehículo

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