

GENERAL INFORMATION AND IDENTIFICATION

4000 Horsepower Six Motor AC Traction Diesel-Electric locomotive.

4000 Traction HP Controlled
Locomotive
SD70MAC
KCS 3900 - 3974

Locomotive Model Designation

New Road Numbers (Formerly TFM 1600 - 1674)

TYPE

AAR designation (C-C), Common designation (0660)

NOMINAL DIMENSIONS

Length, pulling face of Coupler to Truck Center of Rotation

11'-10"

Distance between Truck Rotation Centers

50'-4"

Truck wheel base

13'-8"

Length over coupler pulling faces

74'-0"

Width over handrail supports

10'-3 3/4"

Track gauge - Standard

4'8 1/2"

Diameter Wheels - New

42"

TRUCKS

HTC-R Radial Trucks

WEIGHTS AND SUPPLIES

Total loaded weight (approximate)

415,000# +/-5,000# Based
on inbound core

Fuel (usable)

4,890 gal.

Sand (total, front and rear)

56 cu. ft. (28 cu. ft. at each
end)

Cooling System

276 gal.

Lubricating Oil

436 gal.

CLEARANCES

The basic locomotive and all options are in compliance with AAR Plate "L" under all loading conditions and wheel sizes.

CURVE NEGOTIATION

Single unit

213' Radius - 26.9 deg
Curve

Two SD70MAC units coupled

256' Radius - 22.4 deg
Curve

Single unit coupled with 50 ft. box car

373' Radius - 15.4 deg.
Curve

PERFORMANCE

Temperature Range

-40 to + 115 F

Gear Ratio

85:16

Maximum Operating Speed

70 MPH

Maximum Speed at Full Horsepower

70 MPH

Continuous Tractive Effort at Full Horsepower

137,000 lbs. TE @ 9.2 mph

Starting Tractive Effort

175,500 lbs. TE

Peak Dynamic Brake Effort

81,000 lbs.

HORSEPOWER RATING

The SD70MAC locomotive develops 4000 traction horsepower at 904 RPM under AAR conditions.

Engine	16 cylinder 710 G3B
Emissions	Tier 1
Alternator	TA17 -6JBE-CA7B
Engine / Locomotive Control Systems	EMDEC, EM2000
Traction Control System	Siemens GTO Inverters

LOCOMOTIVE OPTIONS AND MODIFICATIONS

Automatic Equipment Start Stop System	Equipped except for 3908, 3913, 3914, 3921, 3922, 3935, 3939, 3950, 3953, 1654, 1656, 3957, 3960, 3965, 3969. 3974
Graham White 944 Air Dryer	Equipped
Air Brake System Hardware and Software	Knorr CCB 1
Distributed Power	Equipped
Gen 3 Fire Screens	Equipped except for 3908, 3913, 3914, 3922, 3935, 3939, 3953, 1654, 3960, 3965, 3969. 3974
Control Systems EM2000 EMDEC Railhead DVR system with 1 forward facing camera and 2 interior cameras.	

Global Positioning System (GPS)

GPS Greenwich Mean Time is available on all cab electronics interfaces. GPS time will be written to the event recorder every hour as a universal reference for analysis of event recorder logs.

Weight and Ballast

Nominal loaded weight of the inbound core locomotives, including full supplies is 415,000# +/-5,000# .

Manufacturing tolerance plus or minus 5,000 lbs. Locomotive weight to be equalized between trucks to within 5,000 lbs.

Clearance

The basic locomotive and all options are in compliance with AAR Plate "L" under all loading conditions and wheel sizes.

Parking Brake

Recessed wheel type handbrake located at right rear of long hood. 125 lbs. of force is required to set the hand brake.

FUEL SYSTEM

Fuel Tank

Units to be equipped with impact resistant fuel tank. Fuel tank provides 4,890 gallon capacity, with 100 gallon retention tank. Engine water drain will not be discharged into the retention tank.

One filler pipe located on each corner of tank.

Two float type fill gauges are provided, one per side of the locomotive.

Four Snyder II automatic fuel adapter applied - two per side.

The two inch drain line from the locomotive retention tank to be equipped with McMasters Carr part no. 5589K15 "D" coupler and part no. 5594K15 dust plug.

Electronic Fuel Gauge

Complete application of the existing Pulse Electronic Fuel Gauge shall be retained.

SD70MAC Locomotive Summary

Locomotive Number	Build Date	AESS Equipped	GEN 3 Fire Screen	Last Periodic Inspection		Air Brake Fragmented	Air Brake Type
				Type	Date		
KCS 3904	8/1/99	YES	YES	M12	9/24/18	YES	CCB1
KCS 3917	8/1/99	YES	YES	M06	2/10/19	NO	CCB1
KCS 3921	8/1/99	NO	YES	M12	6/16/18	NO	CCB1
KCS 3934	8/1/99	YES	YES	M06	10/18/18	NO	CCB1
KCS 3941	8/1/99	YES	YES	M06	11/19/18	YES	CCB1
KCS 3953	8/1/99	NO	NO	M12	10/7/18	NO	CCB1
KCS 3957	8/1/99	NO	YES	M06	10/6/18	NO	CCB1
KCS 3960	8/1/99	NO	NO	M06	1/28/19	YES	CCB1
KCS 3969	8/1/99	NO	NO	M06	11/23/18	NO	CCB1
KCS 3970	8/1/99	YES	YES	M06	1/3/19	YES	CCB1
KCS 3974	8/1/99	NO	NO	M06	11/23/18	NO	CCB1

SD70MACE Locomotive Summary

Locomotive Number	Build Date	Overhaul Date	AESS Equipped	GEN 3 Fire Screen	Last Periodic Inspection		Air Brake Fragmented
					Type	Date	

KCS 3906	8/1/99	12/6/16	YES	YES	M06	6/18/18	YES
KCS 3946	8/1/99	9/11/17	YES	YES	M12	9/20/18	YES



Air Brake Type	Known Open Defects prior to moving into long storage
-------------------	---

CCB2
CCB2

Failed #1 & 9 Power assemblies and
damaged crankshaft
Low coolant pressure shutdown

6 Month Defect History - Opened and Closed Defects

Locomotive Class	Defect Code	Defect Type	Defect Class	Defect Date	Defect Seq	Defect Description	Defect Carrier
SD70MAC	50	CARBODY	MINOR	10/16/18	1	TRAINMASTER REPORTED THE FRONT DOOR LOCK IS BROKEN	KCS
SD70MAC	150	ELECTRICAL-LIGHTING	MINOR	12/14/18	1	NEED TO REPLACE MISSING DITCH LIGHT	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/18/19	1	LOCOMOTIVE WILL NEED TO BE STORED ON ARRIVAL TO SHREVEPORT	KCS
SD70MAC	201	ELECTRICAL-WEAK BATTERIES-DEAD	MAJOR	1/19/19	1	WOULD NOT START. WEAK BATTERIES	KCS
SD70MAC	200	ELECTRICAL-WEAK BATTERIES-RUNNING	MINOR	1/19/19	1	WEAK BATTERIES - DON'T SHUT DOWN	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	1/29/19	1	UNIT DIT TO PORT ARTHUR STORAGE PREP	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1	MOVE UNIT TO EAST ST LOUIS	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...)	MEDIUM	10/3/18	1	Cambiar inyector #7 por tiempo de respuesta bajo	KCSM
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...)	MEDIUM	10/3/18	2	Cambiar inyector #7 por tiempo de respuesta bajo	KCSM
SD70MAC	210	ENGINE RELATED FAILURE (SHUTDOWNS)	MAJOR	10/5/18	1	NO ARRANCA POR BAJO VOLTAJE DE BATERIAS. Locomotora KCS 3917. QUE LAS BATERIAS NO RETIENEN LA CARGA POR MUCHO TIEMPO Y	KCSM
SD70MAC	201	ELECTRICAL-WEAK BATTERIES-DEAD	MAJOR	10/9/18	1	NO LE FUNCIONA EL AUTOARRANQUE	KCSM
SD70MAC	30	CAB MISC	MINOR	10/19/18	1	FRONT SLIDE LOCK UPSIDE DOWN.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	10/19/18	1	Air dryer Eye bad order.	KCS
SD70MAC	10	AIR-AIR BRAKES	Informational	11/30/18	1	BLUE EYE AND FILTER	KCS
SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	12/1/18	1	DIRECTION IN POWER.	KCS
SD70MAC	10	AIR-AIR BRAKES	MINOR	12/12/18	1	040 brake fault	KCS
SD70MAC	300	NO START	MAJOR	12/21/18	1	NO ARRANCA POR BAJO VOLTAJE DE BATERIAS, SE ENCONTRARON TERMICO CERRADOS	KCSM
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/10/19	1	POSSIBLE 2019 REWHEEL CANDIDATE GET WHEEL REPORT AND CHECK WITH MANAGER	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/30/19	1	UNIT IS BEING STORED DO NOT FUEL, DRAIN WATER, APPLY STACK COVERS ON ARRIVAL TO SHREVEPORT, DISCONNECT BATTERIES AND HAVE FUELED DRAINED BY E ENVIRONMENTAL &	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/10/19	1	RECORD FUEL AMOUNT AT SERVICING	KCS
SD70MAC	10	AIR-AIR BRAKES	MINOR	2/15/19	1	MOVER SLP PARA COMPLETAR INSPECCION M06, SOLO TIENE FEDERAL.	KCSM
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/2/19	1	ARROJO MENSAJE FALLAFRENO DE AIRE COD 040, FUNIONA NORMAL	KCSM
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/2/19	1	DIT TO ESTL - DO NOT FUEL LOCOMOTIVE OR START	KCS
SD70MAC	80	DEAD IN CONSIST	MAJOR	10/1/18	1	REPORTED DIT BY THE UP, COMMENTS: DIC OIL PUMP B/O. 10/1/2018	KCS
SD70MAC	9020	WI-TRONIX	Informational	10/10/18	1	WI-PU NO COMMUNICATION: TROUBLE SHOOT WI-PU OUT OF CONTACT. USE	KCS
SD70MAC	80	DEAD IN CONSIST	MAJOR	10/26/18	1	TROUBLESHOOTING GUIDE PROVIDED TO SHOP MANAGERS	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	10/30/18	1	UNIT DEAD AND DRAINED DIT TO PORT ARTHUR FOR STORAGE PREP	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/12/18	1	NEEDS WORK THRU S/T	KCS
SD70MAC	260	FRA DIT TO SHOP	MAJOR	2/1/19	1	LOCOMOTIVE ENTERED INTO LONGTERM STORAGE FOR DEFERED REPAIRS ON ENGINE GEAR	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...)	MEDIUM	5/13/19	1	TRAIN. \$ 45,000.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1	FRA DIT TO PORT ARTHUR FOR LONG STORAGE.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1	REPORTED DIT BY UP. COMMENTS DIC OIL PUMP B/O 10/1/2018.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1	MOVE UNIT TO EAST ST LOUIS do not fuel	KCS
SD70MAC	50	CARBODY	MINOR	10/14/18	1	APLICAR ESPEJO RETROVISOR RETIRADO PARA LA LOC. KCS 4114	KCSM
SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	12/13/18	1	CREW REPORTS THE ENGINE WILL NOT LOAD. NO ACTIVE DEFAULTS. MAC WALKED THE CREW INTO THE FAULT ARCHIVE TO ACKNOWLEDGE THE FAULTS AND PERFORMED A REBOOT BUT	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	12/13/18	1	NO FIX. PLEASE INSPECT UNIT FOR LOADING ISSUES AS CREW REPORTED IT TO STOP LOADING WHILE	KCS
SD70MAC	50	CARBODY	MINOR	12/15/18	1	AT ROODHOUSE.	KCS
SD70MAC	180	ELECTRICAL-TCC OR TM CUT OUT	MEDIUM	1/10/19	1	THE FRONT DOOR LOCK VIBRATES SO THE DOOR CAN NOT BE OPEN FROM THE INSIDE OF CAB	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/30/19	1	CSXT RR REPORTS: #1 TRUCK CUT OUT DUE TO OVER CURRENT ISSUES	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/31/19	1	UNIT IS BEING STORED DO NOT FUEL, DRAIN WATER, APPLY STACK COVERS, DISCONNECT BATTERIES AND HAVE FUELED DRAINED BY E ENVIRONMENTAL & RECORD FUEL AMOUNT AT	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	2/5/19	1	SERVICING	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/31/19	1	MOVE DIT TO SHREVEPORT FOR STORAGE PREP	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	2/5/19	1	UNIT DEAD AND DRAINED DIT TO PORT ARTHUR FOR STORAGE PREP	KCS
SD70MAC	210	ENGINE RELATED FAILURE (SHUTDOWNS)	MAJOR	10/8/18	1	: MAQUINISTA REPORTA AL ESTAR SALIENDO DEL TUNEL SE APAGO MOTOR DIESEL POR PRESION DEL REFRIGERANTE, BOTO EL TAPON DEL TANQUE DE EXPANCIÓN Y TIRO	KCSM
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	10/23/18	1	DEMACIADA AGUA, SE RECUPERAR EL TAPON RESTABLECE LOC SE PUSO A TRABAJAR, VERIFICA NIVEL DE REFRIGERANTE NO HAY PRESENCIA EN EL CRISTAL DE OBSERVACIONES, SE	KCSM
SD70MAC	110	ELECTRICAL-CAB MISC.	MINOR	11/7/18	1	APAGO M.D. SE MANEJA REMOLCADA SE ENCIENDE LA SEGUNDA LOC PARA CONTINUAR A	KCS
SD70MAC	180	ELECTRICAL-TCC OR TM CUT OUT	MEDIUM	11/14/18	1	S.L.P.	KCS
SD70MAC	100	ELECTRICAL-CAB DISPLAY	MINOR	11/15/18	1	SE BLOQUE TCC1 POR SOBRECORRIENTE SE RESTABLECIO EN UNA OCASION	KCS
SD70MAC	130	ELECTRICAL-DYNAMIC BRAKING	MINOR	11/15/18	1	CREW REPORTED THEY HAVE A LOCK AXLE DETECTED FOR TM #6. CREW INSPECTED WHEEL AND COMPLETED A ROLL BY INSPECT. ALL GOOD. CREW CUT OUT LOCKED WHEEL	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/19/18	1	DETECTOR.	KCS
SD70MAC	130	ELECTRICAL-DYNAMIC BRAKING	MINOR	11/21/18	1	GETTING TTC 2 CONTACTOR FAULT IN DYNAMICS. CUT OUT DYNAMIC BRAKES.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/23/18	1	CREW REPORTS GETTING A NO LOAD FUEL PUMP BREAKER TRIPPED FAULT THAT COMES AND	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	11/23/18	1	GO'S. NO BREAKERS TRIPPED AND ENGINE LOADS FINE AFTER. PLEASE INSPECT FOR FAULTS.	KCS
SD70MAC	120	ELECTRICAL-DROPPING LOAD	MAJOR	12/6/18	1	REPORTED DYNAMIC BRAKES DROPPING OUT	KCS
SD70MAC	200	ELECTRICAL-WEAK BATTERIES-RUNNING	MAJOR	12/26/18	1	M06 2 PG FED COMPLETED IN KC. WORK TO SHREVEPORT FOR MAINTENANCE	KCS
SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	12/28/18	1	TCC2 Blower breaker tripping during load of dynamics. Dynamics have been cut out.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/10/19	1	Repeater for the same issue. Needs repaired at Shreveport	KCS
SD70MAC	380	WHEELS-MINOR FLAT SPOTS	MINOR	1/16/19	1	toilet pipe is broke off at drain	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/18/19	1	Bad order tcc2 blower motor. Cause of tcc2 breaker tripping.	KCS
SD70MAC	260	FRA DIT TO SHOP	MAJOR	1/29/19	1	CREW REPORTS THE ENGINE QUIT LOADING, SAYS STARTED DROPPING LOAD SHOWING A	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	1/30/19	1	REDUCED LOAD TCC2 BLOWER LOCKOUT FAULT	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1	MAQUINISTA REPORTA QUE SE APAGO MOTOR DIESEL POR AHORRO DE COMBUSTIBLE Y NO PUEDE ENCENDER POR BANCO DE BATERIAS MAL ORDEN, SE AJUSTA A TONELAJE DE UNA	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1	LOCOMOTORA LA FALLADA SE MANEJA REMOLCADA EN MISMO TREN A SLP	KCSM
SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	12/28/18	1	REPORTA MAQUINISTA QUE AL INTENTAR ENCENDER LOCOMOTORA ESTA NO ENCENDIO MD, Y AL TRATAR DE ENCENDERLA EXPIDE OLOR A CABLE QUEMADO NO SE PUEDE REESTABLECER	KCSM
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/10/19	1	SE MANEJA MUERTA REMOLCADA, TREN MMYMX28 LE PROPORCIONARA UNA LOCOMOTORA	KCS
SD70MAC	380	WHEELS-MINOR FLAT SPOTS	MINOR	1/16/19	1	POSSIBLE 2019 REWHEEL CANDIDATE GET WHEEL REPORT AND CHECK WITH MANAGER	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/18/19	1	POSSIBLE 2019 REWHEEL CANDIDATE GET WHEEL REPORT AND CHECK WITH MANAGER	KCS
SD70MAC	260	FRA DIT TO SHOP	MAJOR	1/29/19	1	LOCOMOTIVE WILL NEED TO BE STORED ON ARRIVAL TO SHREVEPORT	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	1/30/19	1	FRA - DIT TO PORT ARTHUR FOR STORAGE	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1	DIT TO PORT AUTHUR FOR STORAGE.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1	MOVE UNIT TO EAST ST LOUIS	KCS

6 Month Defect History - Opened and Closed Defects

Locomotive Class	Defect Code	Defect Type	Defect Class	Defect Date	Defect Seq	Defect Description	Defect Carrier
------------------	-------------	-------------	--------------	-------------	------------	--------------------	----------------

SD70MAC	81	INSPECTION PAST DUE	MAJOR	10/6/18	AN M12 INSPECTION WAS/IS SCHEDULED ON 10/07/2018 AND IS PAST DUE OR HAS AN	
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MEDIUM	10/6/18	1 INSPECTION SCHEDULED WITHIN 3 DAYS OF THE SHOP DATE	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MEDIUM	10/6/18	1 engineers side aftercooler leaking water.	KCS
SD70MAC	30	CAB MISC	MEDIUM	10/6/18	2 ENGINEERS SIDE AFTERCOOLER LEAKING WATER.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	10/7/18	1 rear cab door rusted all the way through at the bottom.	KCS
SD70MAC	250	EXHAUST LEAKS	MINOR	10/7/18	1 air compressor room and sump oily	KCS
					1 EXPANSION JOINT BOLT MISSING	KCS
SD70MAC	210	ENGINE RELATED FAILURE (SHUTDOWNS)	MAJOR	10/25/18	REPORTA MAQUINISTA EN PK BC135 SE APAGO LOC GUIADA DE REMOTA KCS3953 AL REVISAR REPORTAN QUE SE APAGO MOTOR DIESEL SE ARRANCA Y VUELVE A APAGARSE POR BAJA PRESION DE AGUA AL REVISAR NIVELES SE OBSERVA QUE EXPULSO EL TAPON DE TANQUE DE EXPANSION VACIANDOSE EL SISTEMA, NO SE PUEDE VOLVER A ARRANCAAR POR	KCSM
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/25/18	1 BAJO NIVEL DE AGUA, CONTINUARON ASI A BAJA VELOCIDAD, PENDIENTE DEMORA	KCS
SD70MAC	110	ELECTRICAL-CAB MISC.	MINOR	12/24/18	1 FORNT SAND BOXES ARE LOW ON SAND- NEED SAND ADDED	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/4/19	1 CREW REPORTS THE HEATER IS NOT WORKING. CYCLED THE BREAKERS STILL WILL NOT WORK.	KCS
SD70MAC	30	CAB MISC	Informational	1/19/19	1 TEMP ANTENNA APPLIED FOR HED	KCS
SD70MAC	180	ELECTRICAL-TCC OR TM CUT OUT	MEDIUM	1/25/19	1 ENGINE CAME IN SHOWING LOCKED NUMBER TWO AXLE. RESET FAULT AND ROLL TESTED	KCS
SD70MAC	80	DEAD IN CONSIST	MAJOR	1/29/19	1 ENGINE. FAULT DID NOT REOCCURE. DOWNLOADS TAKEN AND SENT TO EMD FOR REVIEW.	KCS
SD70MAC	260	FRA DIT TO SHOP	Informational	1/29/19	1 TCC #2 is cut out due to comm failure.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/30/19	1 DIT to Shreveport for repair	KCS
SD70MAC	30	CAB MISC	MINOR	2/1/19	1 FRA DIT TO SHOP	KCS
SD70MAC	20	AIR-AIR COMPRESSOR	MINOR	2/1/19	1 OPEN N ERROR	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MEDIUM	2/1/19	1 eng wiper knob missing	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/3/19	1 air dryer needs serviced	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/3/19	1 eng front radiator leaking	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/3/19	1 Sight glass leaking water	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/3/19	2 Both couplings under water tank are leaking	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/3/19	3 Rubber seals on the left side coming off your V pipe leading to your left bank rads are leaking	KCS
SD70MAC	20	AIR-AIR COMPRESSOR	MINOR	2/7/19	4 Top coupling by sight glass leaking water (Marked with paint)	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MEDIUM	2/7/19	1 A/C discharge pipe leaking	KCS
SD70MAC	20	AIR-AIR COMPRESSOR	MINOR	2/9/19	1 Engineer side Water pump B/O, leaking from weephole	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/7/19	1 AIR COMPRESSOR DISCHARGE LINE LEAKING	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/7/19	1 send to estl do not fuel	KCS

Locomotive Class	Defect Code	Defect Type	Defect Class	Defect Date	Defect Seq	Defect Description	Defect Carrier
SD70MAC	9020	WI-TRONIX	Informational	1/12/19	1	1 EVENT RECORDER NOT READING.	KCS
SD70MAC	ANTE	BO ANTENNA	MINOR	1/12/19	1	1 ANTENNA IS READING BAD.	KCS
SD70MAC	8	BLUE CARD DEFECT	Informational	1/17/19	1	1 BLUE CARD SHOWING FRAGMENTED AIR WHEN NOT IN SPEC. & MISSING PRIOR UNIT	KCS
SD70MAC	50	CARBODY	MINOR	1/17/19	1	1 NUMBER	KCS
SD70MAC	30	CAB MISC	MINOR	1/13/19	1	1 OIL IN A/C ROOM	KCS
SD70MAC	110	ELECTRICAL-CAB MISC.	MINOR	1/14/19	1	1 ROOF LEAKING	KCS
SD70MAC	30	CAB MISC	MINOR	1/13/19	1	1 07h siemens fault	KCS
SD70MAC	9020	WI-TRONIX	Informational	10/19/18	1	2 SKATE ANTANNA COVERS BROKEN	KCS
SD70MAC	30	CAB MISC	MINOR	10/24/18	1	1 Witronix not reporting GPS location	KCS
SD70MAC	10	AIR-AIR BRAKES	MINOR	11/27/18	1	1 unit has a water leak from cieling of the cab. trail only.	KCS
SD70MAC	30	CAB MISC	MINOR	12/14/18	1	1 MKCSH25 EMERGENCY MP 294	KCS
SD70MAC	180	ELECTRICAL-TCC OR TM CUT OUT	MEDIUM	1/3/19	1	1 CREW REPORTS RAIN WATER LEAKING FROM ROOF OF CAB NOSE IN FRONT OF RESTROOM	KCS
SD70MAC	300	NO START	MAJOR	1/4/19	1	1 12/8/2018 PER 1277.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/10/19	1	1 CREW HAD TO CUT OUT TM 1 TO CLEAR TCC FAULTS	KCS
SD70MAC	30	CAB MISC	MINOR	1/23/19	1	1 SUPERVISOR C.I.L. REPORTA NO PUEDE ENCENDER MOTOR DIESEL. ENGINE TURNS OVER FINE	KCSM
SD70MAC	30	CAB MISC	MINOR	1/24/19	1	1 BUT WILL NOT TURN ON.	KCS
SD70MAC	100	ELECTRICAL-CAB DISPLAY	MINOR	2/5/19	1	1 POSSIBLE 2019 REWHEEL CANDIDATE GET WHEEL REPORT AND CHECK WITH MANAGER	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/12/19	1	1 CREW REPORTED THE CODUCTOR SIDE NUMBER LIGHT IS MISSING THE NUMBER PANEL.	KCS
SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	3/1/19	1	1 LIGHTS STILL WORK	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/8/19	1	1 REPORTED NUMBER SIGN MISSING.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/8/19	1	1 CREW REPORT FUEL GAUGE IS NOT WORKING.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/8/19	1	1 TOILET DRAIN CAM LOCK CONNECTION MISSING, CANT HOOK UP TO DRAIN.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/8/19	1	1 NO LOAD, NO TIENE ESFUERZO TRACTIVO	KCSM
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/8/19	1	1 DO NOT FUEL ACROSS SERVICE TRACK	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/8/19	1	1 send to estl do not fuel	KCS

Locomotive Class	Defect Code	Defect Type	Defect Class	Defect Date	Defect Seq	Defect Description	Defect Carrier
SD70MAC	201	SHOP MAINTENANCE	Informational	11/29/18	1	1 DAILY INSP. COMPLETED ON 11/28/18 AT KCMO	KCS
SD70MAC	50	CARBODY	MINOR	10/21/18	1	1 EQUIPMENT ID: KCS3960 SD70MAC, DEAD BATTERIES, WON'T START	KCS
SD70MAC	180	ELECTRICAL-TCC OR TM CUT OUT	MEDIUM	11/13/18	1	1 SANDS DO NOT WORK, IF YOU HAVE SAND	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/27/18	1	1 REPORTED THAT THE TCC NOT WORKING	KCS
SD70MAC	20	AIR-AIR COMPRESSOR	MINOR	1/25/19	1	1 TEST RUN FOR TCC ISSUES ... DOWNLOAD AND PROVIDE TO OEM UPON ARRIVAL.	KCS
SD70MAC	20	AIR-AIR COMPRESSOR	MINOR	1/25/19	1	1 AIR COMPRESSOR HAS BLOW BY CAUSING UNIT TO NOT BUILD AIR.	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MEDIUM	1/25/19	1	2 HEAT EXCHANGER ON COMPRESSOR BROKE OFF	KCS
SD70MAC	30	CAB MISC	MINOR	1/25/19	1	1 line from overspeed housing to oil; coo;er leaking	KCS
SD70MAC	30	CAB MISC	MINOR	1/25/19	1	1 ENGINEER SEAT TORN AT TOP.	KCS
SD70MAC	30	CAB MISC	MINOR	1/25/19	2	2 CONDUCTORS SIDE LEFT WIPER ARM NEEDS ADJUSTED.	KCS
SD70MAC	390	WHEELS-WHEEL TRUE NEEDED	MEDIUM	1/25/19	3	3 CAB FIRE EXTINGUISHER OUT OF DATE.	KCS
SD70MAC	390	WHEELS-WHEEL TRUE NEEDED	MEDIUM	1/25/19	1	1 NEEDS WHEEL TRUE	KCS
SD70MAC	390	WHEELS-WHEEL TRUE NEEDED	MEDIUM	1/25/19	2	2 NEEDS WHEEL TRUE	KCS
SD70MAC	50	CARBODY	MINOR	1/26/19	3	3 NEEDS WHEEL TRUE	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/28/19	1	1 OUT OF SAND NEEDS SAND ON FRONT AND REAR	KCS
SD70MAC	110	ELECTRICAL-CAB MISC.	MINOR	2/13/19	1	1 #8 VENT VALVE PROTECTOR MISSING (ENGINEER SIDE)	KCS
SD70MAC	30	CAB MISC	MINOR	3/23/19	1	1 DATE: WEDNESDAY, 13 FEBRUARY 2019 3:10PM CT	KCSM
SD70MAC	30	CAB MISC	MINOR	4/1/19	1	1 WC SUCIO Y MAL OLIENTE, SE TREQUIERE SERVICIO EN SU PROXIMO CIL	KCSM
SD70MAC	30	CAB MISC	MINOR	4/1/19	1	1 VIDRIO DE PUERTA POSTERIOR ESTRELLADO	KCSM
SD70MAC	RP	SHOP MAINTENANCE	Informational	4/1/19	2	2 CONECTOR DE RADIO FALTANTE	KCSM
SD70MAC	10	AIR-AIR BRAKES	MINOR	4/5/19	1	1 SEND TO estl do not fuel	KCS
SD70MAC	30	CAB MISC	MINOR	4/5/19	1	1 RIGHT NO# 2 BRAKE CYL CUP B/O.	KCS
SD70MAC	10	AIR-AIR BRAKES	MINOR	4/5/19	1	1 REAR CAB DOOR WINDOW B/O.	KCS
SD70MAC	30	CAB MISC	MINOR	4/5/19	2	2 #2 Brake cylinder cup leaking.	KCS

Locomotive Class	Defect Code	Defect Type	Defect Class	Defect Date	Defect Seq	Defect Description	Defect Carrier
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MAJOR	10/2/18	1	1 LOW PRESSURE OF WATER HAS LOW LEVEL OF WATER, THE ENGINE IS TURNED OFF AT THE TOP TH A 4	KCS
SD70MAC	201	ELECTRICAL-WEAK BATTERIES-DEAD	MAJOR	10/15/18	1	1 dead batts. need to get downloads when batts charged	KCS
SD70MAC	30	CAB MISC	MINOR	11/9/18	1	1 HEATER NOT WORKING - JUST BLOWS COLD AIR.	KCS
SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	11/9/18	1	1 UNIT WILL NOT LOAD	KCS
SD70MAC	91	DISTRIBUTED POWER LITE LOADING	MEDIUM	11/10/18	1	1 MAC REPORT SHOWS THAT ALL OF THE POWER SUPPLY HOLD DOWN SCREW ARE BAD AND MODULES ARE COMING LOOSE. MECHANICAL MADE TEMP REPAIRS WITH DUCT TAPE.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/16/18	1	1 WHEN LOCOMOTIVE ARRIVES TO KCMO POWER SUPPLIES NEED TO BE REPAIRED CORRECTLY	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/16/18	1	1 BEFORE IT LEAVES THE FACILITY.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/16/18	2	2 Engine room need washing	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/16/18	3	3 Need eye & filter change	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/16/18	3	3 R/Front Act. hose B/O	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	11/16/18	4	4 Turbo screen to #4 stack missing bolts	KCS

SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	12/3/18	1 FOREIGN LOCOMOTIVE FAILURE, DC LINK OVERCURRENT LOCKOUT	
SD70MAC	RP	SHOP MAINTENANCE	MINOR	12/12/18	1 ENGINE & A/C ROOM NEED WASHING	KCS
					WHEN PUT INTO NOTCH 1 A MU BRAKE WARNING FAULT POPS UP. FAULT CLEARS AFTER A	
SD70MAC	110	ELECTRICAL-CAB MISC.	Informational	12/12/18	1 FEW SECONDS	KCS
SD70MAC	30	CAB MISC	MINOR	12/17/18	1 ENGINEER SIDE CENTER WIPER MOTOR B/O	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	12/17/18	1 LEFT #1 SAND NOZZLE BRACKET MISSING AND HOSE B/O	KCS
SD70MAC	130	ELECTRICAL-DYNAMIC BRAKING	MINOR	12/20/18	1 CREW REPORTED DYNAMIC ALARM	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	12/24/18	1 CONDUCTOR SIDE WALKWAY, ENGINE ROOM, SUMP, AND AC ROOM OILY	KCS
SD70MAC	150	ELECTRICAL-LIGHTING	MINOR	12/30/18	1 CREW REPORTED THE CONDUCTORS SIDE DITCH LIGHT IS BURNT OUT.	KCS
SD70MAC	130	ELECTRICAL-DYNAMIC BRAKING	MINOR	1/1/19	1 CHECK DYNAMIC BRAKES WHEN THEY GO TO SET UP MU ALARM COMES ON.	KCS
SD70MAC	20	AIR-AIR COMPRESSOR	MINOR	1/10/19	1 AIR DRYER EYE AND FILTER NEEDS SERVICED.	KCS
SD70MAC	130	ELECTRICAL-DYNAMIC BRAKING	MINOR	1/13/19	1 WHEN USING DYNAMIC BRAKES MU ALARM FAULTS ON THE SCREEN	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/18/19	1 LOCOMOTIVE WILL NEED TO BE STORED ON ARRIVAL TO SHREVEPORT	KCS
SD70MAC	80	DEAD IN CONSIST	MAJOR	1/29/19	1 UNITS DIT FOR STORAGE	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	1/29/19	1 UNITS DEAD AND DRAINED FRA DIT TO PORT ARTHUR FOR STORAGE PREP	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/13/19	1 MOVE UNIT TO EAST ST LOUIS	KCS

Locomotive Class	Defect Code	Defect Type	Defect Class	Defect Date	Defect Seq	Defect Description	Defect Carrier
SD70MAC	50	CARBODY	MINOR	1/6/19	1	FRONT ROCK PILOT 7"	KCS
SD70MAC	30	CAB MISC	MINOR	1/6/19	1	2 LATCHES BROKEN ON RADIO COVER LEAVING ONLY 1 SERVICABLE LATCH.	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	1/25/19	1	ENGINE ROOM NEED WASHING	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	1/25/19	2	L/S FUEL TANK VENT LINE B/O	KCS
SD70MAC	30	CAB MISC	MINOR	12/12/18	1	CAB FIRE EXTING. B/O	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	12/12/18	1	L/F SAND NOZZLE MISSING	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	12/12/18	2	ENGINE ROOM NEED WASHING	KCS
SD70MAC	130	ELECTRICAL-DYNAMIC BRAKING	MINOR	12/28/18	1	Dynamics are cut out due to loading issues and alarms when cut in	KCS
SD70MAC	10	AIR-AIR BRAKES	MINOR	1/23/19	1	CREW REPORTED BAD ORDER DYNAMICS.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/8/19	1	TCC 2 POWER SUPPLY B/O PART ORDERED.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/11/19	1	CONDUCTOR SIDE RADIO MICROPHONE HOOK UP MISSING.	KCS
						CREW REPORTS GETTING COMPAINON ALT FAULTS AND THE UNIT STOPPED LOADING. CREW ISOLATED THE UNIT AND THEN PLACED THROTTLE BACK TO IDLE, PUT UNIT BACK ON LINE AND IT STARTED TO LOAD AGAIN. AT THE SAME TIME THE CREW REPORTED SEEING WHITE	
SD70MAC	110	ELECTRICAL-CAB MISC.	MINOR	3/2/19	1	SMOKE COMING FROM THE ENGINE ROOM. UNIT IS NOW LOADING FINE	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	3/15/19	1	HOLD FOR EMD TO REVIEW DOWNLOADS.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/2/19	1	DIT TO ESTL - DO NOT FUEL LOCOMOTIVE OR START	KCS

Locomotive Class	Defect Code	Defect Type	Defect Class	Defect Date	Defect Seq	Defect Description	Defect Carrier
SD70MAC	10	AIR-AIR BRAKES	MINOR	10/5/18	1	BRAKE SHOES APPLIED.	KCS
SD70MAC	30	CAB MISC	MINOR	11/25/18	1	VIDRIO DE VENTANA CORREDIZA LADO CONDUCTOR COMPLETAMENTE ESTRELLADO	KCSM
SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	12/3/18	1	NO DYNAMIC BRAKE-NO LOAD TEST-BLOWER CURRENT IMBALANCE	KCS
SD70MAC	50	CARBODY	MINOR	12/21/18	1	CONDUCTOR SLIDING WINDOW BROKEN	KCS
SD70MAC	50	CARBODY	MINOR	12/21/18	2	REAR DOOR MISSING LATCH/HANDLE ASSEMBLY	KCS
SD70MAC	50	CARBODY	MINOR	12/21/18	3	FRONT PLOW NEEDS ADJUSTED. LEFT SIDE 2" RIGHT SIDE 2.75"	KCS
SD70MAC	50	CARBODY	MINOR	12/21/18	4	CARBODY AND WALKWAYS OILY, UNIT NEEDS WASHED. OIL COMING FROM TUBRO.	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MEDIUM	12/21/18	1	ENGINE OIL LEVEL LOW	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MEDIUM	12/21/18	2	OIL COMING OUT OF STACK	KCS
						TRAIL ONLY LH fire screen is bad (FC410). Screen works but is very dim - no parts	
SD70MAC	100	ELECTRICAL-CAB DISPLAY	MINOR	12/22/18	1	available in KC - work in trail to Shreveport and replace	KCS
SD70MAC	130	ELECTRICAL-DYNAMIC BRAKING	MINOR	1/5/19	1	IT CUTS THE EFFORT IN DYNAMIC AS IT PASSES TO THE DB4, THIS FOR FUTURE REFERENCES.	KCSM
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/10/19	1	POSSIBLE 2019 REWHEEL CANDIDATE GET WHEEL REPORT AND CHECK WITH MANAGER	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/12/19	1	FUEL GUAGES OR READING DIFFERENT	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/12/19	2	NO REAR DOOR LOCK	KCS
						CREW REPORTED THE LEFT SCREEN IS FLASHING BRIGHT AND DIM . SCREEN HAS NOT	
SD70MAC	60	DERAILMENT/ACCIDENT-MINOR	MINOR	1/18/19	1	BLACKED OUT.	KCS
SD70MAC	170	ELECTRICAL-NO LOAD	MAJOR	1/23/19	1	NO LOAD, GROUND RELAY LOCKOUT. DIT TO SHOP	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	1/25/19	1	ENGINE ROOM NEED WASHING	KCS
						UNABLE TO GET THE EVR DOWNLOAD AND SEAMENS DOWNLOAD DUE TO SCREEN POWER	
SD70MAC	110	ELECTRICAL-CAB MISC.	Informational	1/25/19	1	CYCLING. ONCE ISSUE FIXED PULL DOWNLOAD	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	1/26/19	1	UNIT IS TO BE USED FOR CAPTIVE 201 POWER ONLY	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	2/1/19	1	Engine sump need washing	KCS
SD70MAC	110	ELECTRICAL-CAB MISC.	MINOR	2/1/19	1	radio antenna showing high reflectivity	KCS
SD70MAC	160	ELECTRICAL-LITE LOAD	MEDIUM	2/9/19	1	TCC#2 BLOWER LOCK OUT	KCS
						RSH 201 CAPTIVE POWER IN SHREVEPORT, DO NOT REMOVE THIS DEFECT WITHOUT SR	
SD70MAC	RP	SHOP MAINTENANCE	Informational	2/10/19	1	MANAGEMENT PERMISSION	KCS
SD70MAC	30	CAB MISC	MINOR	2/11/19	1	SCREENS HAVING COMM ISSUES , CHECK FIRE SOFTWARE	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	2/15/19	1	Engine sump need washing	KCS
SD70MAC	RP	SHOP MAINTENANCE	MINOR	2/15/19	2	L/Rear lube stick & slide missing	KCS
SD70MAC	220	ENGINE SUPPORT (FUEL/OIL/WATER LEAKS, ETC...	MEDIUM	5/4/19	1	ROUTE TO ESTL.	KCS
SD70MAC	RP	SHOP MAINTENANCE	Informational	5/6/19	1	ROUTE TO ESTL DO NOT FUEL OR ATTEMPT TO START	KCS