

## Upload & Discover

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FILES: 1 TOTAL: 1.7 MB

Ready

MODE: Union DOWNSAMPLE FACTOR: 10 MAX POINTS: 100000

Discover / Refresh Clear Selected Export IDs Import IDs

SEARCH SIGNALS Filter signals... Added 1357 channels from cache.

Channels

SIGNAL	PRESENCE	COUNT
nc_C2000.raw	1/1 1/1 1/1	1
CAN_CPLE_COND_APR_TRT	1/1 1/1 1/1	1
CAN_DDE_MODE_BV_MET	1/1 1/1 1/1	1
CAN_DDE_OUV_CDT	1/1 1/1 1/1	1
CAN_VITESSE_VEHICLE_ROUES	1/1 1/1 1/1	1
DEV	1/1 1/1 1/1	1

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## Analytics



## Reports

#FEELEVOLUTION

Regenerate Sections

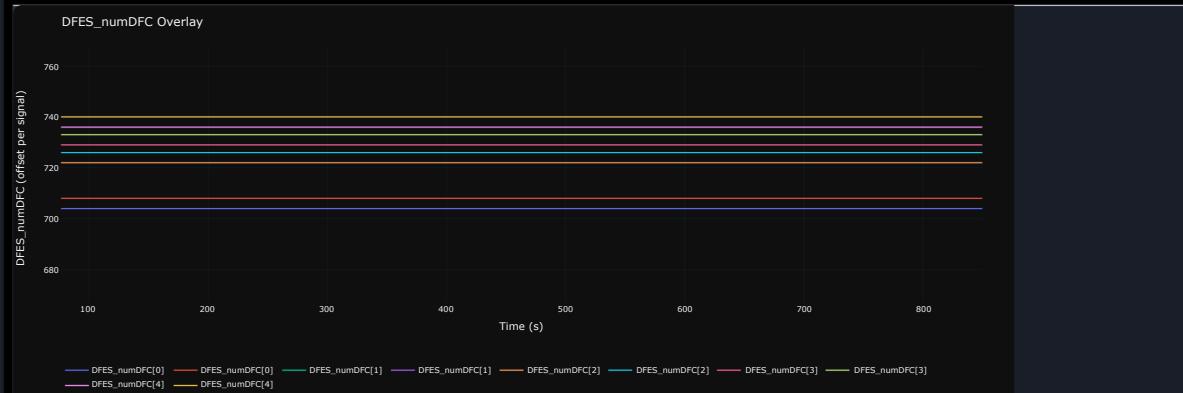
DARK LIGHT

DFC IUPR Gear Hunt Misfire Detection CC/SL Validation Fuel Consumption Empirical Map

DFC generated at 01:09:00

Download Table CSV

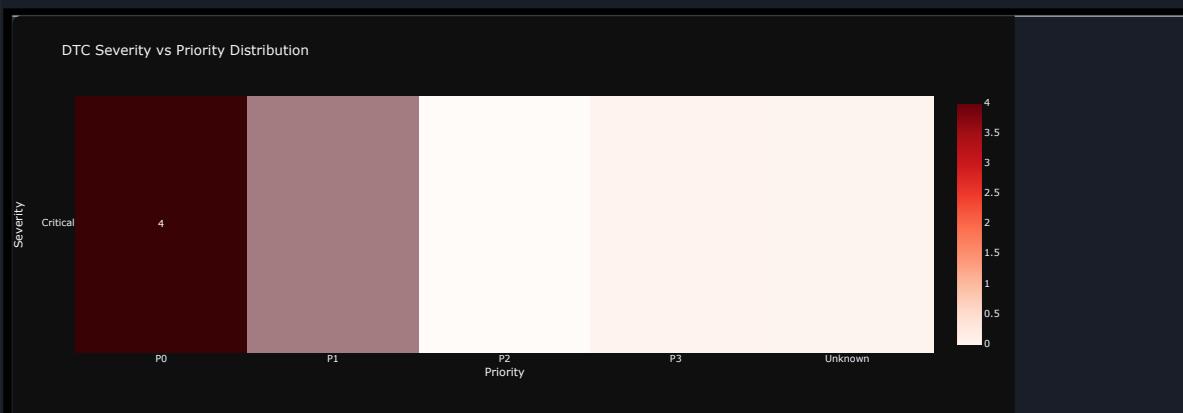
## DFES\_numDFC Overlay



## DFC EVIDENCE CHANNELS

EVENT_RUNS	FILE	NONZERO_ROWS	RUNTIME_SECOND
_numDFC[0]	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	773
	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	1,547
_numDFC[1]	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	2,320
	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	3,094
_numDFC[2]	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	3,86
	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	4,641
_numDFC[3]	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	5,415
	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	6,188
_numDFC[4]	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	6,962
	1 20250528_1535_20250528_6237_PSALOGV2.mdf	3,692	7,73

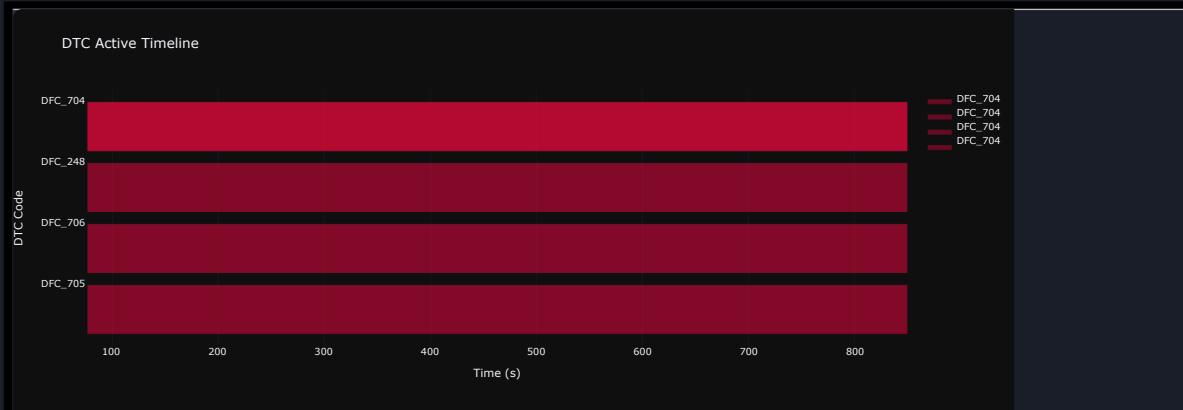
## DTC Severity Distribution



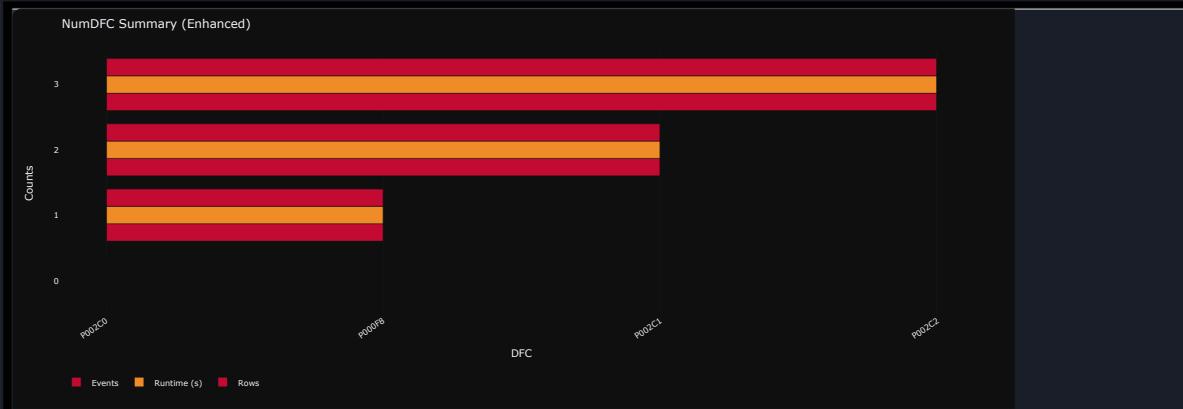
## DFC SUMMARY

DFC_NAME	CODE	CODE_TYPE	DTC_FORMAT	EVENT_COUNT	FIRST_SEEN	LAST_SEEN	MAX_DURA
P000F8	248	Powertrain	P000F8	2	76.4	850	77
P002C0	704	Powertrain	P002C0	4	76.4	850	77
P002C1	705	Powertrain	P002C1	2	76.4	850	77
P002C2	706	Powertrain	P002C2	2	76.4	850	77

## DTC Timeline



## NumDFC Summary



## Reports

#FEELEVOLUTION

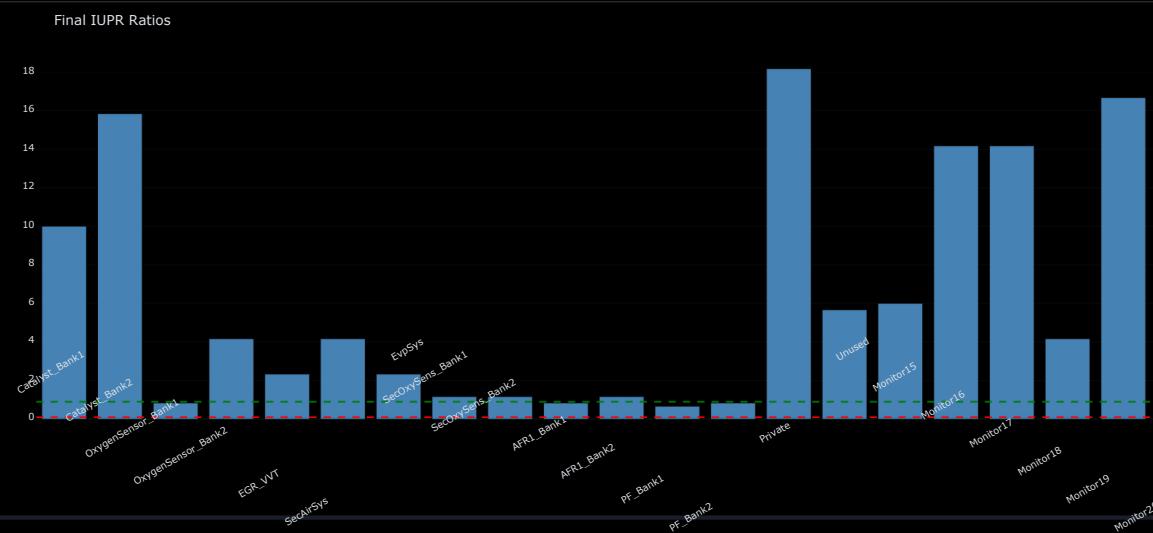
DARK LIGHT

Regenerate Sections

DFC IUPR Gear Hunt Misfire Detection CC/SL Validation Fuel Consumption Empirical Map

IUPR generated at 15:08:26

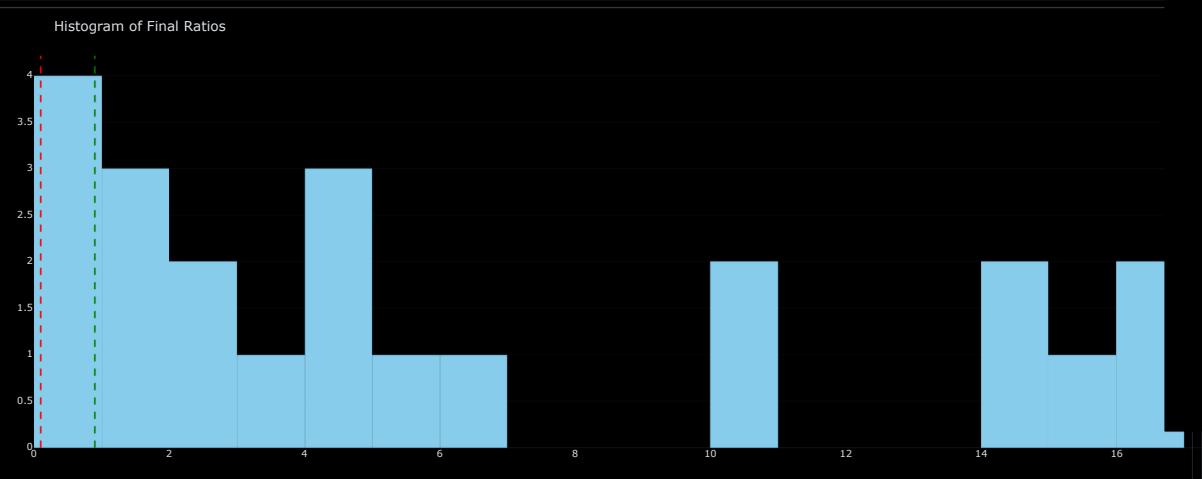
## Final IUPR Ratios



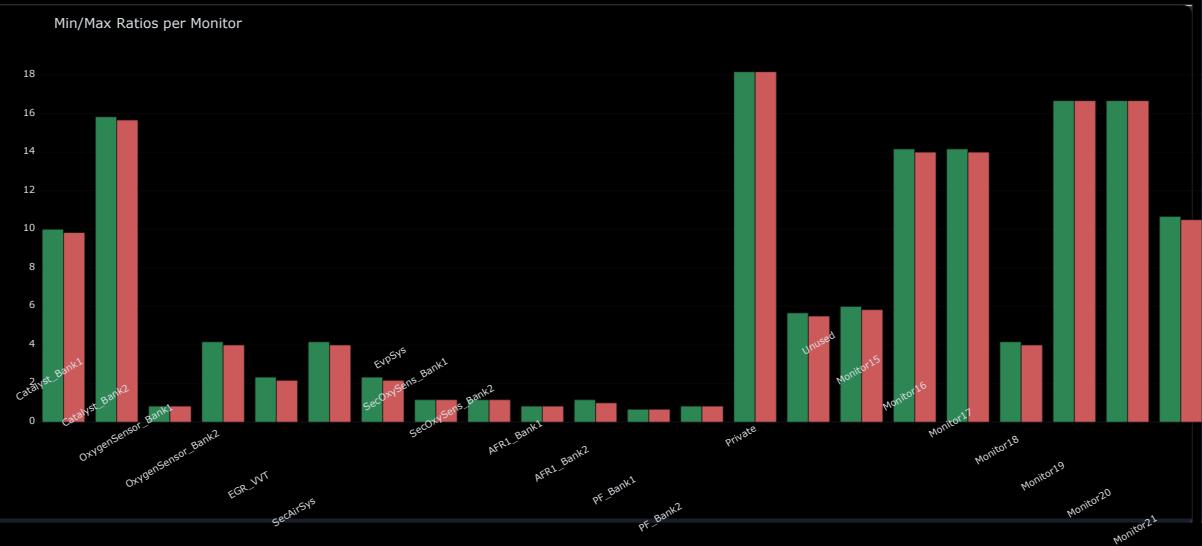
## FINAL IUPR SUMMARY

FILE	FINAL_RATIO	INDEX	MAX_RATIO	MIN_RATIO	MONITOR
20250528_1535_20250528_6237_PSALOGV2.mdf	10	0	10	9.833	Catalyst_Ba
20250528_1535_20250528_6237_PSALOGV2.mdf	15.833	1	15.833	15.667	Catalyst_Ba
20250528_1535_20250528_6237_PSALOGV2.mdf	0.833	2	0.833	0.833	OxygenSen
20250528_1535_20250528_6237_PSALOGV2.mdf	4.167	3	4.167	4	OxygenSen
20250528_1535_20250528_6237_PSALOGV2.mdf	2.333	4	2.333	2.167	EGR_VVT
20250528_1535_20250528_6237_PSALOGV2.mdf	4.167	5	4.167	4	SecAirSys
20250528_1535_20250528_6237_PSALOGV2.mdf	2.333	6	2.333	2.167	EvpSys
20250528_1535_20250528_6237_PSALOGV2.mdf	1.167	7	1.167	1.167	SecOxySen
20250528_1535_20250528_6237_PSALOGV2.mdf	1.167	8	1.167	1.167	SecOxySen
20250528_1535_20250528_6237_PSALOGV2.mdf	0.833	9	0.833	0.833	AFR1_Bank1
20250528_1535_20250528_6237_PSALOGV2.mdf	1.167	10	1.167	1	AFR1_Bank2
20250528_1535_20250528_6237_PSALOGV2.mdf	0.667	11	0.667	0.667	PF_Bank1
20250528_1535_20250528_6237_PSALOGV2.mdf	0.833	12	0.833	0.833	PF_Bank2
20250528_1535_20250528_6237_PSALOGV2.mdf	18.167	13	18.167	18.167	Private
20250528_1535_20250528_6237_PSALOGV2.mdf	5.667	14	5.667	5.5	Unused
20250528_1535_20250528_6237_PSALOGV2.mdf	6	15	6	5.833	Monitor15
20250528_1535_20250528_6237_PSALOGV2.mdf	14.167	16	14.167	14	Monitor16
20250528_1535_20250528_6237_PSALOGV2.mdf	14.167	17	14.167	14	Monitor17
20250528_1535_20250528_6237_PSALOGV2.mdf	4.167	18	4.167	4	Monitor18
20250528_1535_20250528_6237_PSALOGV2.mdf	16.667	19	16.667	16.667	Monitor19
20250528_1535_20250528_6237_PSALOGV2.mdf	16.667	20	16.667	16.667	Monitor20
20250528_1535_20250528_6237_PSALOGV2.mdf	10.667	21	10.667	10.5	Monitor21
20250528_1535_20250528_6237_PSALOGV2.mdf	3.167	22	3.167	3.167	Monitor22

## Histogram of Final Ratios



## Min/Max Ratios



## Reports

[Regenerate Sections](#)[DFC](#) [IUPR](#) [Gear Hunt](#) [Misfire Detection](#) [CC/SL Validation](#) [Fuel Consumption](#) [Empirical Map](#)

GEAR generated at 01:09:03

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## Gear Analysis Multi-Signal



## FILE SUMMARY

FILE	GEAR_SIGNAL	HUNTING_EVENTS	HUNTING_RATE	SIGNALS_F
20250528_1535_20250528_6237_PSALOGV2.mdf	currentGear	1	4.56	gear, spe

## HUNTING EVENTS

AVG_RPM	AVG_SPEED	Avg_Throttle	Avg_Torque	DETECTION_TYPE	DURATION	FILE
478	0	0	-2,1	Oscillating, Rapid Shifts, Inefficient	1.8	202

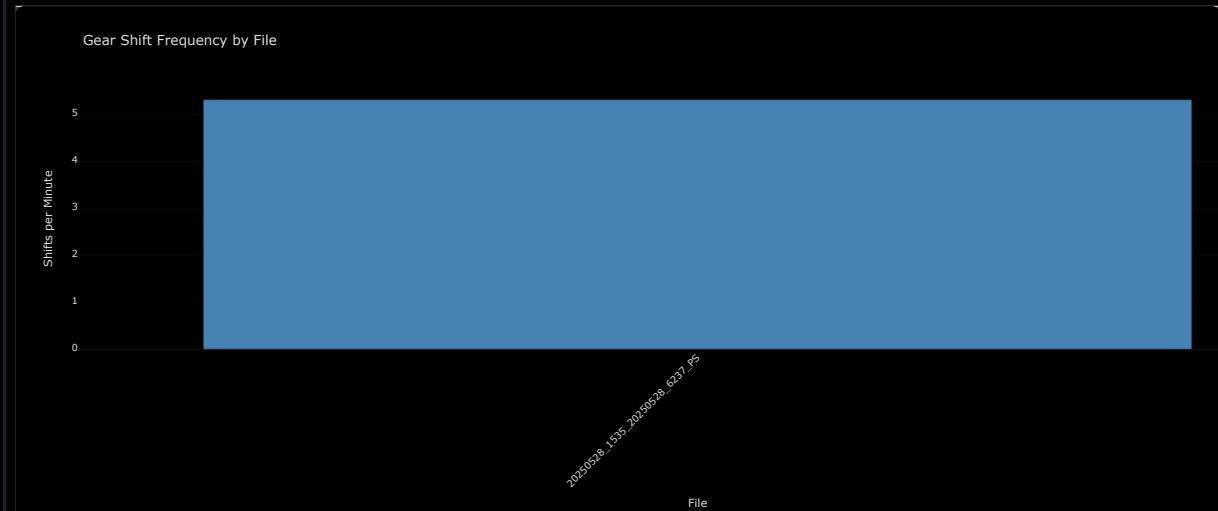
## SIGNAL MAPPING

CHANNEL_NAME	FILE	FOUND	SIGNAL_R
currentGear	20250528_1535_20250528_6237_PSALOGV2.mdf	true	gear
96D7124080_8128328U_FM77_nc.bestLockUp	20250528_1535_20250528_6237_PSALOGV2.mdf	true	tc_lockup
Epm_nEng	20250528_1535_20250528_6237_PSALOGV2.mdf	true	rpm
TqSys_tqCkEngReal_RTE	20250528_1535_20250528_6237_PSALOGV2.mdf	true	torque
throttle	20250528_1535_20250528_6237_PSALOGV2.mdf	true	throttle
MG1CS051_H440_2F.Ext_spdVeh_RTE	20250528_1535_20250528_6237_PSALOGV2.mdf	true	speed

## STATISTICS

METRIC	VALUE
Total Hunting Events	1
Average Event Duration (s)	1.8
Average Shifts per Event	1
Average Shift Rate (shifts/s)	0.53
Max Severity Score	37.2
Average Severity Score	37.2
Files Processed	1
Total Gear Shifts	70
Total Hunting Events	1

## Shift Frequency

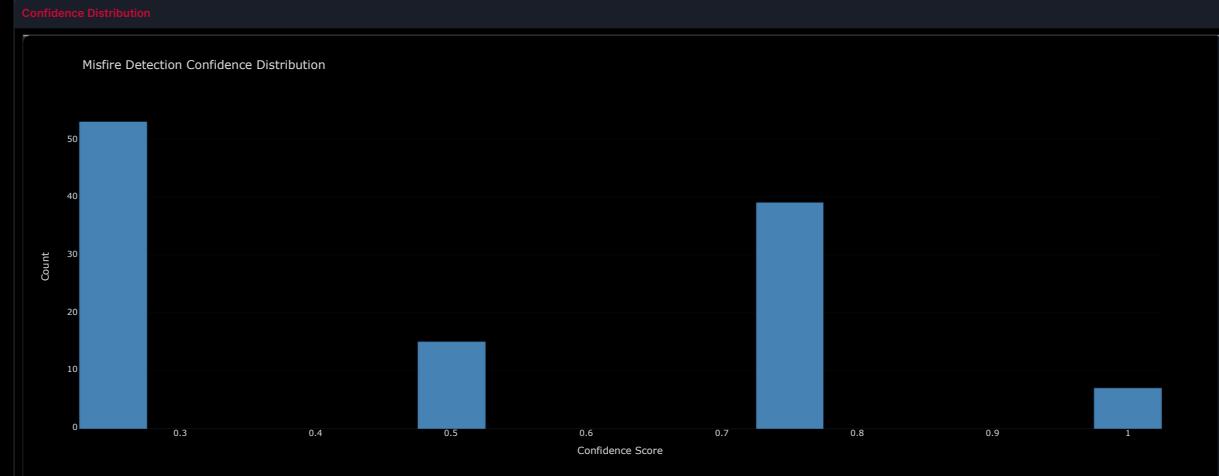


## Reports

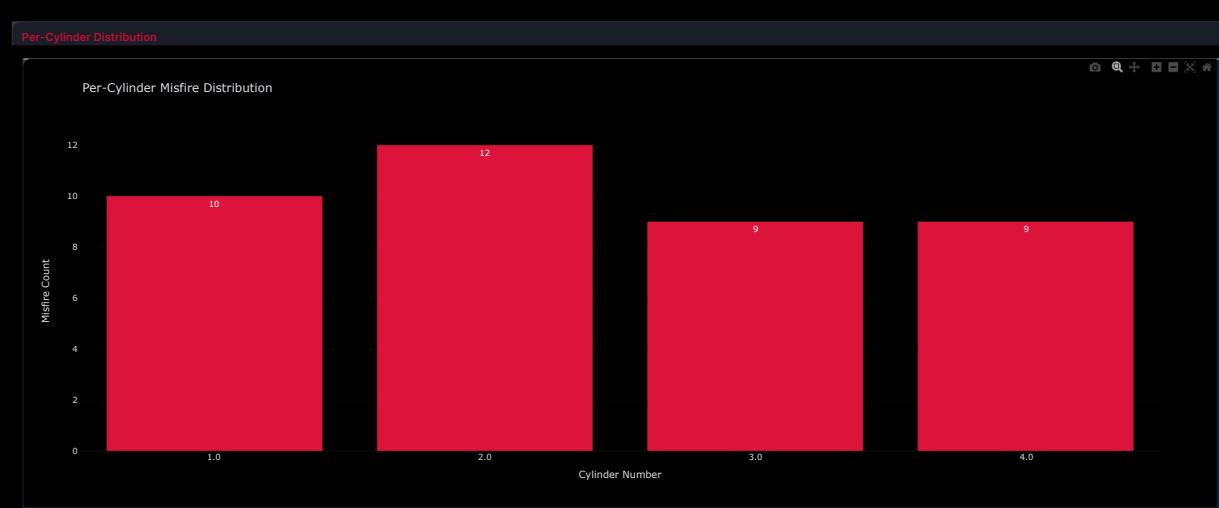
**Regenerate Sections**

MISEIRE generated at 01:09:04

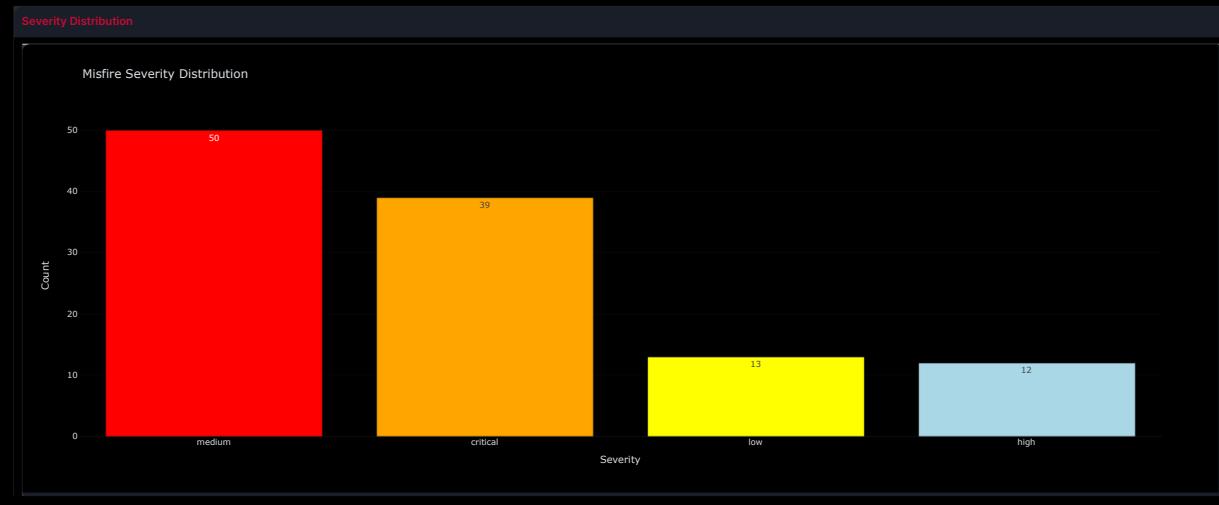
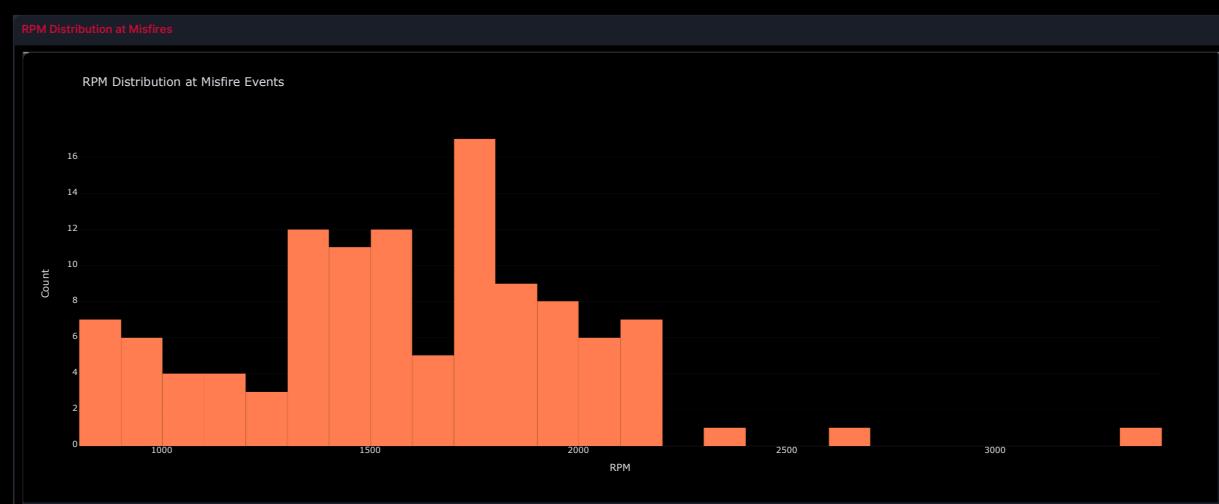
[Download Table CSV](#)



FILE SUMMARY							
Avg_Rpm	Critical	Cylinder_Count	File	High	Low	Max_Rpm	Medium
1,608	39	4	20250528_1535_20250528_6237_PSALOGV2.mdf	1.2	1.3	3,750.5	50



Misfire Events			
Confidence	Cylinder_Count	Detection_Methods	Event_Count
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.5	4	angular_velocity, crankshaft_variance	2
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.5	4	angular_velocity, crankshaft_variance	2
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
1	4	per_cylinder_crankshaft, pattern_matching, angular_velocity, crankshaft_variance	5
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
0.25	4	crankshaft_variance	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
0.25	4	crankshaft_variance	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
1	4	per_cylinder_crankshaft, pattern_matching, angular_velocity, crankshaft_variance	5
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
0.25	4	frequency_domain	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.25	4	angular_velocity	1
0.25	4	crankshaft_variance	1
0.25	4	angular_velocity	1
0.5	4	angular_velocity, crankshaft_variance	2
0.5	4	angular_velocity, crankshaft_variance	2
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.5	4	angular_velocity, crankshaft_variance	2
0.25	4	angular_velocity	1
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.75	4	signal_fusion, angular_velocity, crankshaft_variance	4
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.25	4	frequency_domain	1
0.25	4	crankshaft_variance	1
0.25	4	angular_velocity	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
0.5	4	angular_velocity, crankshaft_variance	2
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
1	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance, signal_fusion	4
0.75	4	signal_fusion	5
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.75	4	signal_fusion	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.25	4	crankshaft_variance	1
0.25	4	crankshaft_variance	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.5	4	angular_velocity, crankshaft_variance	2
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	4
0.5	4	angular_velocity, crankshaft_variance	2
0.25	4	frequency_domain	1
0.25	4	crankshaft_variance	1
0.75	4	per_cylinder_crankshaft, angular_velocity, crankshaft_variance	3
0.25	4	angular_velocity	1
0.25	4	pattern_matching	2
0.25	4	crankshaft_variance	1
0.25	4	angular_velocity	1
1	4	per_cylinder_crankshaft, pattern_matching, angular_velocity, crankshaft_variance	5
-	-	angular_velocity, crankshaft_variance	-



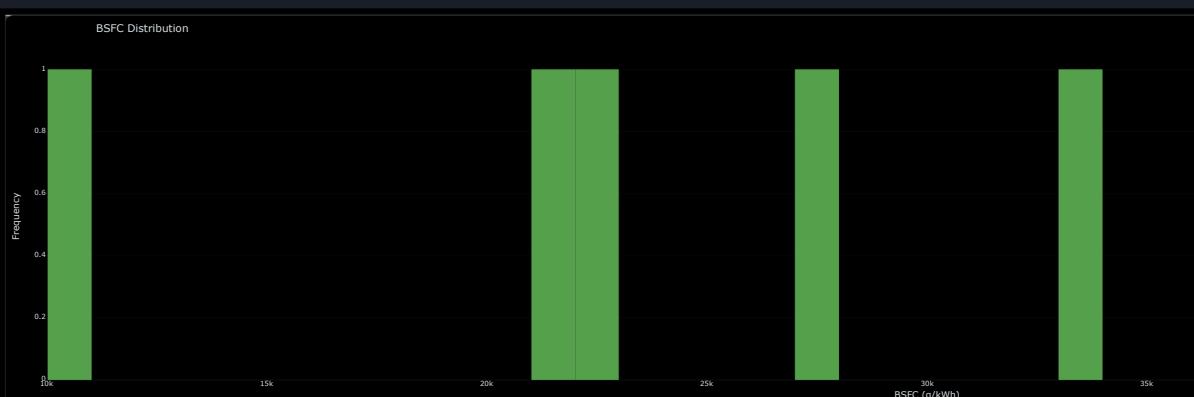
## Reports

Regenerate Sections

DFC IUPR Gear Hunt Misfire Detection CC/SL Validation Fuel Consumption Empirical Map

FUEL generated at 15:11:20

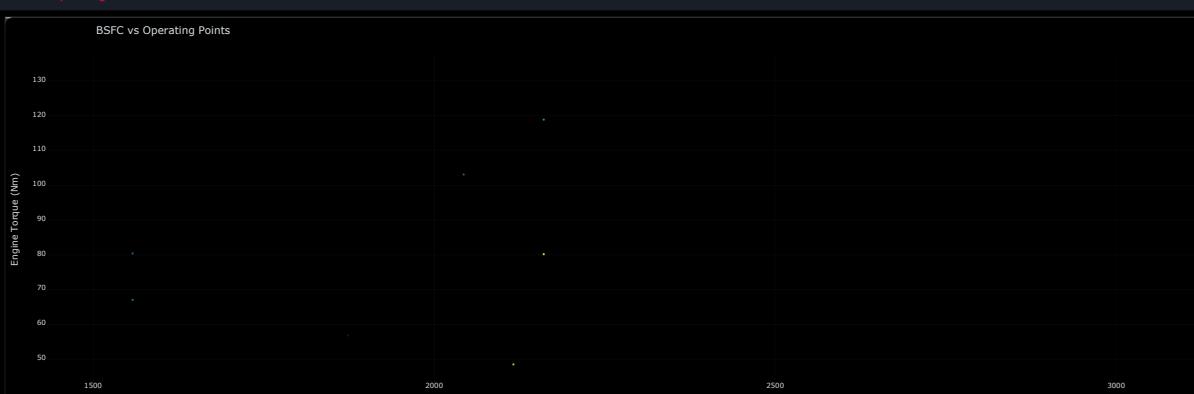
## BSFC Distribution



## FUEL CHANNELS FOUND

CHANNEL_NAME	SIGNAL_ROLE	STATUS
FuCns_vo!FuCnsTot	fuel_vol_consumption	Found
FuCns_vo!FuCnsTot	fuel_mass_flow	Found
Epm_mEng	rpm	Found
TqSys_tqCkEngReal_RTE	torque	Found
VITESSE_VEHICLE_ROUES	speed	Found
UDS_IUPR_ADAPT_uniqueV13.DISTANCE_ROUES	distance	Found
infD_mfAirCanPurgEstim	air_mass_flow	Found
MG1CS051_H440_2F.AFReg_facCorRich_RTE	lambda	Found
throttle	throttle	Found
96D7124080_8128328U_FM77_nc.gearSelector	coolant_temp	Found

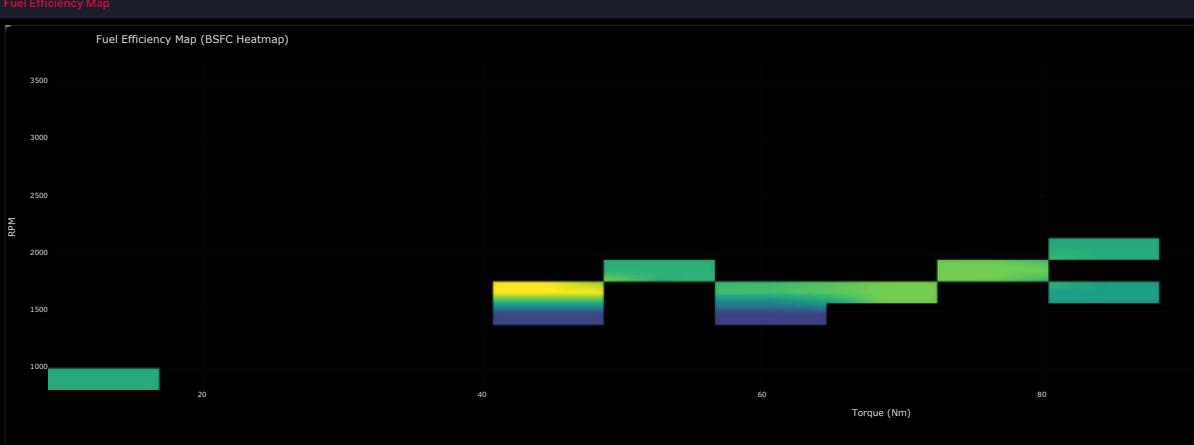
## BSFC vs Operating Points



## FUEL SUMMARY

COUNT	MAX	MEAN	MEDIAN	METRIC	MIN	P25	P75
489	131,606,361.496	5,001,488.946	1,048,794.896	BSFC (g/kWh)	10,688.376	450,751,923	3,8
773	20,400	10,465.408	10,560	Fuel Flow Rate (L/h)	0	5,200	
773	4,222	2,166	2,185	Fuel Mass Flow (kg/s)	0	1,076	
773	51,822	4,807	1,726	Mechanical Power (kW)	-7,021	-0,022	
773	3,750,5	1,438,194	1,634,5	Engine RPM	0	960	
773	167,859	24,371	13,279	Engine Torque (Nm)	-39,582	-1,874	
656	353,26	102,26	81,22	Fuel Consumption (L/10...	0	28,15	

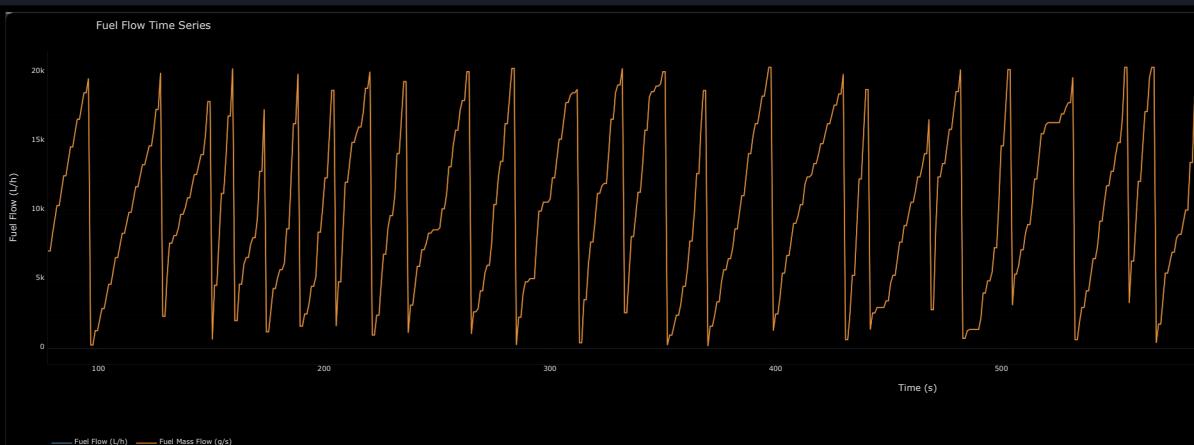
## Fuel Efficiency Map



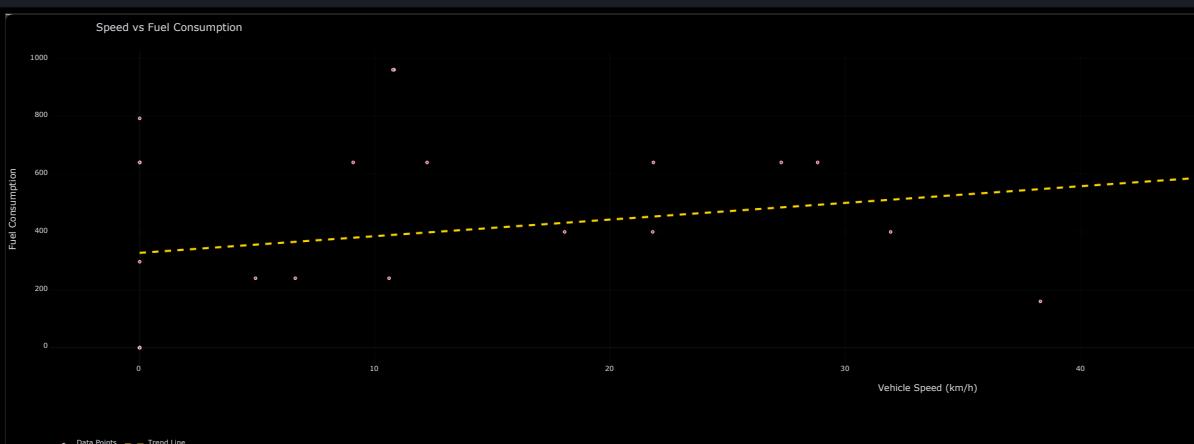
## OPERATING POINT ANALYSIS

BSFC_MAX	BSFC_MEAN	BSFC_MEDIAN	BSFC_MIN	FUEL_FLOW_MEAN_LH	RPM_BIN_CENTER	SAMPLE_COUNT
129,789,683.48	11,116,484.39	5,074,894.75	91,520.82	10,579.8	500	101
25,164,702.03	3,364,849.31	1,511,375.11	189,208.38	8,886.67	1,000	36
131,606,361.5	8,075,254.53	2,280,681.13	63,092.35	10,335.5	1,500	129
1,587,113.37	593,364.52	572,340.16	10,688.38	10,256.76	1,500	105
723,959.88	398,683.02	403,128.53	55,718.14	11,949.63	1,500	27
15,263,716.75	2,689,166.32	1,767,200.97	44,339.83	10,687.27	2,000	22
1,180,498.86	458,905.77	362,038.17	49,280.73	10,313.04	2,000	46
496,214.09	220,516.33	214,034.14	21,627.08	7,794.29	2,000	14

## Fuel Flow Time Series



## Speed vs Fuel Consumption



**Advanced Analytics Playground**

Professional-grade signal visualization and analysis with multi-trace support

