



TDX

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V O L V O

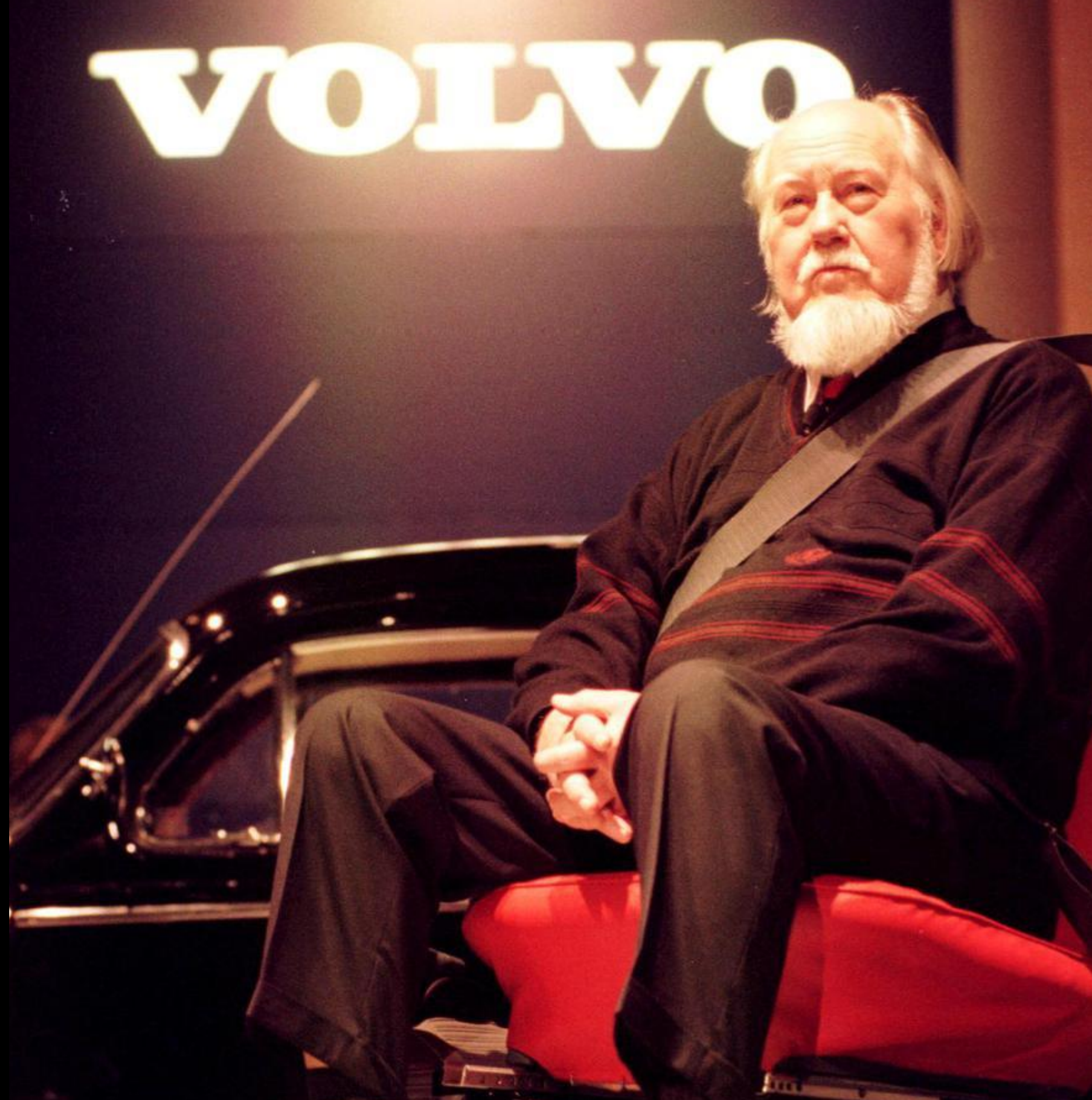
► Colm Hamrogue & Joe Gradwell





Safety Moment

one person's actions
can make a difference







FEBRUARY 2022

TDX started a trial period. 17 units

MAY 2022

TDX decided to invest in a new role.

DECEMBER 2022

ActiveCare rollout process.
First mass activation:
92 Gold CSA Units

NOVEMBER 2022

Laura started as Product Support Analyst at TDX Christchurch.
Volvo visited and provided Activecare training.

JANUARY 2023

Production + Units (Phase I)
Activation of 100 Units

MARCH 2023

Production + Units(Phase II)
Activation of 48 units

JULY 2023

Activation of 45 additional units

MAY 2023

Product Support Team starts to make recommendations based on ActiveCare reports and take action with the customers: Likes of Enviro NZ,



INSIGHT REPORTS

ACTIVECARE REPORT

Period: 19th of Jun - 25th Jun 2023 (week 25)

Scope: Fleet



DEALER TDX Ltd	SUB-DEALER	CUSTOMER
CONTACT	CONTACT	SERVICE MANAGER

Most Critical Technical Alarms

Per Machine				Number of Alarms (49 Machines)	
Machines ranked by no. of incidents		Technical Alarms	Incidents	Site	
1	13246, L180H	Secondary Steering Pump Malfunction - No Sub Type Information - General Purpose Machine Electronic Control Unit 1	8	Undefined site	 Red Alarms: 9% (W25: 41%) Yellow Alarms: 26% (W25: 26%) Blue Alarms: 65% (W25: 30%)
2	481052	Engine Coolant Level Sensor/Switch - Circuit Open - Engine Control Module	1	McLeans Quarry	
3	475595	Air Filter Clogged - No Sub Type Information - Engine Control Module	33	Timaru Levels Quarry	
4	4092, L260H	Air Filter Clogged - No Sub Type Information - Engine Control Module	8	Drury	
5	4233, L260H	Air Filter Clogged - No Sub Type Information - Engine Control Module	8	Undefined site	

Most Critical Operating Behavior Alerts

Per Machine				Number of Alerts (49 Machines)	
Machines ranked by severity level		Operating Behavior Alerts	Incidents	Site	
1	314835, ECR145E	High rpm shutdown	6 of 10	Undefined site	 Red Alerts: 7% (W25: 7%) Yellow Alerts: 68% (W25: 63%) Blue Alerts: 24% (W25: 30%)
2	722146, A30G	High Engine speed	2 min 8 sec	Undefined site	
3	275556, EC480D	High rpm shutdown	1 of 25	Undefined site	
4	722146, A30G	Machine idle more than 30%	59 %	Undefined site	
5	323289, A40G	Machine idle more than 30%	34 %	Undefined site	

Alert	No. of machines	No. of incidents	Long-term effects	Tips on how to improve
Articulated Haulers				
High Engine speed	1	1	Increased fuel cost due to high rpm. Engine failure/reduced life time. Transmission breakdown.	When driving, lower engine speed is better for economy and for longer engine life.
Machine idle more than 30%	2	2	Diesel Particulate Filter (DPF)	Activate auto engine shutdown.
Engine short idle shutdown	2	21	Turbo life time.	Idle between 60-120 sec. Machine option. Engine hot shut-down.
Engine brake activated	2	2	High brake pad wear.	The engine brake usage should be as high as possible to avoid brake pad wear.
Overloaded cycles	1	1	High fuel consumption. Risk for high wear of driveline components.	Keep the load within the specified limits
Excavator				
High rpm shutdown	2	7	Turbo life time. Engine life time reduced.	Switch to Idle mode before engine shutdown and idle between 60-120 sec.
Engine short idle shutdown	6	71	Turbo life time.	Idle between 60-120 sec. Machine option. Engine hot shut-down.
Work mode distribution H-mode	7	7	Engine life time.	Recommendation is to use G mode as much as possible.
Travel in High Speed	2	2	High wear of undercarriage parts.	Use low speed as much as possible when travelling
Wheel loader				
High Machine Speed	4	4	Transmission breakdown.	Don't put gear in neutral and run in high machine speed in deep slopes.
High Engine speed	12	12	Increased fuel cost due to high rpm. Engine failure/reduced life time. Transmission breakdown.	High engine speed is permissible when using the engine brake. When driving, lower engine speed is better for economy and for longer engine life.

VOLVO
ACTIVECARE



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