

## **Test Monitoring Center**

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MEMORANDUM:	22-001
DATE:	January 7, 2022
TO:	Sequence V Surveillance Panel
FROM:	Richard Grundza
SUBJECT:	VH Reference Oil 1011-1 Targets

As approved during the December 20, 2021 Sequence V Surveillance Panel conference call, the targets for reference oil 1011-1 are listed in the table below. The data used to generate the targets is also attached. These targets are effective January 4, 2022. Please note that for AES and RAC the means and standard deviations are the current means for reference oil 1011-1. For AE50 and AP50, the standard deviations are the current stand deviations from reference oil 1011, and the means are the average of the severity adjusted results for AE50 and AP50. The attached table lists both the unadjusted and severity adjusted results for the AE50 and AP50 parameters only.

VH Reference Oil 1011-1 Targets

Parameter	Mean	Standard Deviation		
Average Engine Sludge (AES)	8.43	0.57		
Average Rocker Cover Sludge (ln(10-RAC)	-0.5294	0.1924		
Average Engine Varnish (AE50)	9.43	0.21		
Average Piston Varnish, 50% rating (AP50)	8.96	0.48		

REG/reg/mem22-001.reg.docx

cc: Scott Parke Jeff Clark Sequence V Surveillance Panel https://www.astmtmc.org/ftp/docs/gas/sequencev/memos/mem22-001.pdf

Distribution: email

## Data Used to Evaluate reference oil Targets

					AP50		AE50		
Testkey	ltmslab	ltmsdate	APPARATS	AP50	adjusted	AE50	adjusted	AES	RAC
166475-VH	G	20211027	G3	8.58	8.69	9.26	9.23	8.35	9.52
162991-VH	G	20210923	G2	8.91	9.02	9.5	9.47	8.69	9.54
166479-VH	G	20210923	G5	8.71	8.82	9.44	9.41	8.13	9.33
165542-VH	А	20210923	A2	9.05	9.04	9.55	9.55	9.12	9.48
165541-VH	А	20211010	A5	8.73	8.72	9.2	9.2	8.33	9.44
162745-VH	D	20211012	D1	8.6	8.82	9.4	9.6	7.96	9.44
161669-VH	G	20211023	G1	9.08	9.19	9.55	9.52	8.15	9.36
163350-VH	А	20211121	A3	9.38	9.37	9.46	9.46	9.05	9.44