ANALYTICAL WORK REQUEST

WHITE-File; YELLOW-Requester; BLUE-Analyst

TO	ANALYTICAL CHEMISTRY AND SPECTROSCOPY GROUP ORGANIC RESEARCH	DATE Jan. 16, 1968	CHARGE - Job No. 13-33-0--
		REQUESTER Bannistry	LOCATION T-308

WORK REQUESTED OR ANALYSIS REQUIRED

GLC

REASON To establish amounts of impurities (and their identities, where possible) in MCS 293. It is hoped to determine a relationship between these data and the performance of MCS 293 in a high temperature (Alcor) deposition test.

COMMENTS Only QD-1 MCS 293 has had a detailed GLC run on it before. [Samples of lots QD-1 and QH-2 MCS 293 can be obtained from Joe Baker. The other lots are being sent with this request.] We need to know impurity levels all the way from L.B. to 5-ring spe

SAMPLE IDENTIFICATION

1. Lot QD-35 MCS 293
2. Lot QD-1 MCS 293
3. Lot QE-1 " "
4. Lot QE-2 " "
5. Lot QH-1 " "
6. Lot QH-2 " "
7. MCS 293-2, Unused Fluid from Bearing Rig Test # 290 at Eppi

DATA FOR SPECTROSCOPY WORK Include reaction carried out and possible by-products

Expected impurities include: Lo-Boilers
Φ_2S
$\Phi\Theta\Phi$-CE
$\Phi\delta\Phi$-CE
Φ_2S_2
5-ring species:
m-OD
m-SO
5-ring species,

DSW 298962

DATE

STLCOPCB4068876

This side to be filled in by analytical chemistry and spectroscopy group

TYPE OF WORK NEEDED *Check appropriate combination*

☐ CHEMICAL ☐ INSTRUMENTAL ☐ IR ☐ UV ☐ EMISSION

☐ ESTABLISHED METHODS ☐ METHOD DEVELOPMENT ☐ EXPLORATORY

COMMENTS

ASSIGNED TO

ANALYTICAL REPORT

		QD-35	QD-1	QE-1	QE-2	QH-1	QH-2	Unused MCS-293-2
①	E.O.	.004%	.02%	.04%	.02%	.02%	.06%	.05%
②		.003	.001	Trace	<.002	—	—	
③	ϕoϕ		.002	Trace	<.002	—	—	.001
④	-ϕSϕaϕϕ	.02	.05	.006	.01	.02	.006	.006
⑤	-ϕSϕCl	.14	.55	.08	.09	.08	.04	.11
⑥	ϕSSϕ	.02	.06	<.002	<.002	<.002	.002	.02
⑦		—	—	—	—	—	—	.002
⑧		—	.002	—	<.002	—	—	—
⑨	-OO	—	.002	.008	.01	—	.003	.002
⑩	-OS	.06	.07	.15	.14	.14	.07	.06
⑪	-ϕSϕSϕ	.09	53.7	55.1	54.6	54.9	53.5	52.5
⑫		.02	.10	.10	.10	.10	.14	.14
⑬		<.002	.01	.02	.02	.02	.24	.01
⑭		<.002	—	.01	<.002	<.002	.07	.01
⑮		<.002	.01	.008	.005	<.002	.005	.007
⑯		<.002	.01	.006	.006	<.002	.008	.008
⑰	4Ring	11.5	11.3	9.7	10.0	9.7	11.7	11.8
⑱		22.5	21.8	22.5	22.4	22.3	23.1	22.3
⑲		13.0	12.4	12.2	12.5	12.3	10.9	13.0
⑳		N.D.	.09	N.D.	N.D.	N.D.	.04	.02
㉑		N.D.	.04	N.D.	N.D.	N.D.	.02	.01
㉒		—	—	.10	.15	.16	.06	.03
㉓	5Ring	—	—	.05	Trace	—	—	—
㉔		—	—	—	—	—	—	—

DSW 298963

N.D. = Not Determ

G. Gasser

SIGNATURE

DATE 1-24-68

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