

**CERTIFICATE OF ANALYSIS**  
**OXYGEN SCAVANGER Liquid**Doc Code: PDF-LAB-PR14-PDF-F02  
Revision No.: 05  
Revision Date: 2024.07.28

Customer / Client Name:	SAVA ENERGY	Page No.	Page 1 of 1
Address :	--	Certificate Issue Date :	2024.08.04
Tel/Fax No. :	9374656460	Request No. :	03RQ0103
Sample Description :	O2 Scavenger	Certificate No. :	03AD0137
Sample Delivery Date :	2024.08.04	Customer Sampling Code (B/N):	SE-OS-2024930
Sampling Date :	--	Customer Sampling Code (STK):	--
Sampling By :	Customer	Registered Sample Code:	--
Shipment Qty:	Lab Sample	Expire Date:	--

**Laboratory Test Result**

Laboratory Test Date	2024.08.04	Laboratory Temp	29.8	°C	Laboratory Humidity	22	%
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Test Description	Reference	Standard						Result
Appearance	-	Clear light yellow or pink liquid						Clear liquid
Specific Gravity at 20°C	ASTM D1298	1.0-1.5						1.22
pH	ASTM E70	Max.10						4.6
Foaming Volume	ASTM D3601	After 5 min: Max 5%						0
Solubility in water	-	Soluble						Soluble
Oxygen Concentration Reduction								
Concentration of Oxygen Scavenger	Reference	Standard after 10( Min)	Standard					
			Initial Reading	1 Min	2Min	3Min	5 min	10 min
500 ppm of Sample (0.05mL@100cc Tap water)	ASTM D888	>90%	8.14	90.29	95.70	96.19	96.68	97.05
500 ppm of Sample (0.05mL@100cc Saturated Calcium Chloride)		---	6.78	49.41	74.63	83.77	92.32	92.62
500 ppm of Sample (0.05mL@100cc Saturated Salt Water)		>90%	6.67	89.05	93.55	94.60	95.35	95.35

Prepared By  
Laboratory ExpertSignature  
Date 2024.08.04Approved By  
Laboratory Technical ManagerSignature  
Date: 2024.08.04Confirmed By  
D. ManagerSignature  
Date: 2024.08.04

- Laboratory test result is only applicable to the received sample.
- Laboratory test result which has been issued from central laboratory is based on API13A and according to ISO/IEC17025:2017.
- This Report shall not be reproduced except in full without the written approval from Pars Drilling Fluids Laboratory
- Material Sample will be kept for 1 month from the date submitted to the company.

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