



Analysis Report

Lab Number	22J22445	Test Pkg	HYT1	Sampled	10/01/2022
Equipment	PSS Atlantis, Thruster No. 6, Gravity Tank	Received	10/17/2022	Completed	10/27/2022
Identification	ATLN-AT6-GRVT /				

Customer Information

Lab Account: VACOTEAN
 Cotemar S.A. de C.V - Atlantis
 Hernandez Reyes Juan Francisco
 Carreterra Carmen- Puerto Real
 km 10S - Nave De Omma
 24179 Carmen Campeche
 MEXICO

Equipment Information

Registration Number	01844640/BHY	Equip. Time ()	62795
Equipment Type	Hydraulic	Oil Time ()	41584
Lubricant	MOBIL DTE 10 EXCEL 32	Sampling/Oil change	Sampling
Work Order	ATLN-216/2022		
PO Number	22241385	Sample Ref	



Normal

ISO 9001:2015 Certified and ISO/IEC 17025:2017 Accredited

The overall results are satisfactory. Continue normal maintenance. Resample at your regular sampling interval.

Online results

<https://sofia.sgs.com>

Lab Number	Minimum	Maximum	Ref. Oil	22H52028	22I02200	22I29048	22I64275	22I90520	22J22445
Sample date				05/01/2022	06/01/2022	07/01/2022	08/01/2022	09/01/2022	10/01/2022
Equipment life ()				59155	59992	60593	61329	62054	62795
Oil life ()				38037	38781	39382	40118	40843	41584
Top up (L)				-	-	-	-	-	-

Oil Analysis

Viscosity 40 °C cSt	32.30	32.39	32.63	32.80	32.50	32.43
Total Acid Number mg KOH/g	0.03	0.15	0.13	0.11	0.04	0.14
Water content ppm	56	112	35	81	105	167
Size 4-6 µm counts/100ml	96900	48600	79800	147900	162500	53300
Size 6-10 µm counts/100ml	17400	9100	17000	28700	48100	16500
Size 10-14 µm counts/100ml	4000	1000	2600	2800	10700	3300
Size 14-25 µm counts/100ml	1500	400	1200	800	7100	1700
25-50 µm counts/100ml	100	0	100	0	2000	300
50-100 µm counts/100ml	0	0	0	0	100	0
>100 µm counts/100ml	0	0	0	9	0	0
Particles Count ISO4406	17/15/11	16/14/10	17/15/11	18/16/11	18/17/14	17/15/12
>4µm counts/mL	1201	593	1009	1813	2307	754
>6µm counts/mL	232	106	211	334	682	220
>14µm counts/mL	16	5	14	19	93	20

Metals and Contaminants by ICP

Silver ppm	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aluminium ppm	<1	<1	<1	<1	<1	1
Boron ppm	<1	<1	<1	1	<1	<1
Barium ppm	<1	<1	<1	<1	<1	<1
Calcium ppm	99	98	92	9	143	105
Cadmium ppm	<1	<1	<1	<1	<1	<1
Chromium ppm	<1	<1	<1	<1	<1	<1
Copper ppm	<1	<1	<1	2	1	<1
Iron ppm	<1	<1	<1	2	<1	<1
Magnesium ppm	<1	<1	<1	1	<1	<1
Molybdenum ppm	<1	<1	<1	<1	<1	<1
Sodium ppm	<3	<3	<3	<3	<3	3
Nickel ppm	<1	<1	<1	<1	<1	<1
Phosphorus ppm	249	366	320	402	608	400

Evaluated by:

Bobby Licu

For questions about this report, please call 707-554-4611 between 8:00 am and 5:00 pm CST. A technical support representative will be glad to help you.

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Sample date				05/01/2022	06/01/2022	07/01/2022	08/01/2022	09/01/2022	10/01/2022	
Lead ppm				1	<1	<1	<1	<1	<1	
Silicon ppm				<1	<1	<1	1	<1	2	
Tin ppm				<1	<1	1	<1	<1	<1	
Vanadium ppm				<1	<1	<1	<1	<1	<1	
Zinc ppm				<1	1	1	14	2	1	
Antimony ppm				<1	<1	<1	<1	<1	4	
Potassium ppm				<4	<4	<4	<4	<4	<4	
Manganese ppm				<1	<1	<1	<1	<1	<1	
Titanium ppm				<1	<1	<1	<1	<1	<1	
Sulphur ppm				562	1041	797	15312	1505	966	



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