

OIL ANALYSIS REPORT

Sample Rating Trend



Area **SEAWARD EXPLORER** Machine Id **Explorer** Component **Port Reduction Gear**

Fluid MOBIL DELVAC 1640 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

📥 Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

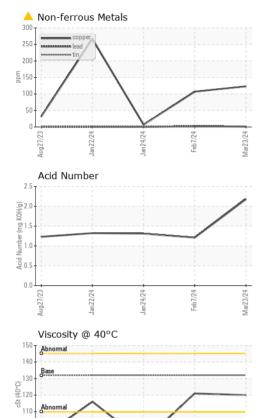
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886564	WC0859379	WC0891230
Sample Date		Client Info		23 Mar 2024	07 Feb 2024	24 Jan 2024
Machine Age	hrs	Client Info		17378	16717	14487
Oil Age	hrs	Client Info		665	4	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	15	13	17
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	1
Lead	ppm	ASTM D5185m	>100	<1	3	0
Copper	ppm	ASTM D5185m	>50	<u> </u>	1 07	7
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		1	1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	2	300
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		3	2	37
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		243	295	36
Calcium	ppm	ASTM D5185m		3434	3869	3000
Phosphorus	ppm	ASTM D5185m		862	939	770
Zinc	ppm	ASTM D5185m		932	1096	818
Sulfur	ppm	ASTM D5185m		4018	4061	3796
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	13	12	16
Sodium	ppm	ASTM D5185m		23	22	9
Potassium	ppm	ASTM D5185m	>20	3	<1	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.18	1.21	1.31



Ab 100 90 Aug27/23

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OIL ANALYSIS REPORT



Unique Numb Certificate L2367 Test Packag		: WC0886564 : 06155226	Recei Teste	Madison Ave., Cary, NC 27513 Received : 19 Apr 2024 Tested : 24 Apr 2024 Diagnosed : 24 Apr 2024 - Don Baldridg ce at 1-800-237-1369.			SEAWARD SERVICE 222 PEARL S NEW ALBANY, II US 4715 Contact: PETER CHARBONNE PCHARBONNET@HMS-SEAWARD.COI		
		Aug27/23	Jan24/24 🕂	Feb7/24 -	Mar23/24 +	Aug27/23	Jan24/24 -	Feb7/24-	
		8 110 Abnormal	\checkmark		(6)HO3 (2 2 2 2 3 4 3 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	.0-			
		() 130 9 120		-	B_1	.5			
		140 - Base			(B/HQ2)	.0		/	
		Viscosity @ 40°C			- 7	Acid Number			
		Aug27/23 Jan22/24	Jan 24/24	Feb	Mar23/24				
		2/24	4/24	Feb7/24	3/24				
		100-		/					
		200 tin							
		300 copper	-						
		الله من	-	LÉ.	M				
		Aug27/23	Jan 24/24	Feb7/24.	Mar23/24 -				
		5							
Jan 24/24	Feb7/24	E 15 10							
54	24	20 - iron - 15 - nickel							
/		Ferrous Alloys							
/		GRAPHS							
						no image		no image	
		Bottom				no image		no image	
Jan 24/24	Feb7/24 Mar23/24	Color				no image		• no image	
		SAMPLE IMAGE	S	method	limit/base	current	history1	history2	
		Visc @ 40°C	cSt	ASTM D445		120	121	91.9	
	/	FLUID PROPER	TIES	method	limit/base	current	history1	history2	
		Free Water	scalar	*Visual		NEG	NEG	NEG	
Ť	M	Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.1	NORML NEG	NORML	NORML NEG	
Jan 24/24	Feb7/24 Mar23/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	
¥	4 4	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
		Debris	scalar	*Visual	NONE	NONE	NONE	NONE	
		Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
		Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE	

Report Id: SEANEW [WUSCAR] 06155226 (Generated: 04/24/2024 10:13:25) Rev: 1

Submitted By: PETER CHARBONNET

Page 2 of 2