**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

## Area SEAWARD EXPLORER Machine Id Explorer Component

Port Reduction Gear

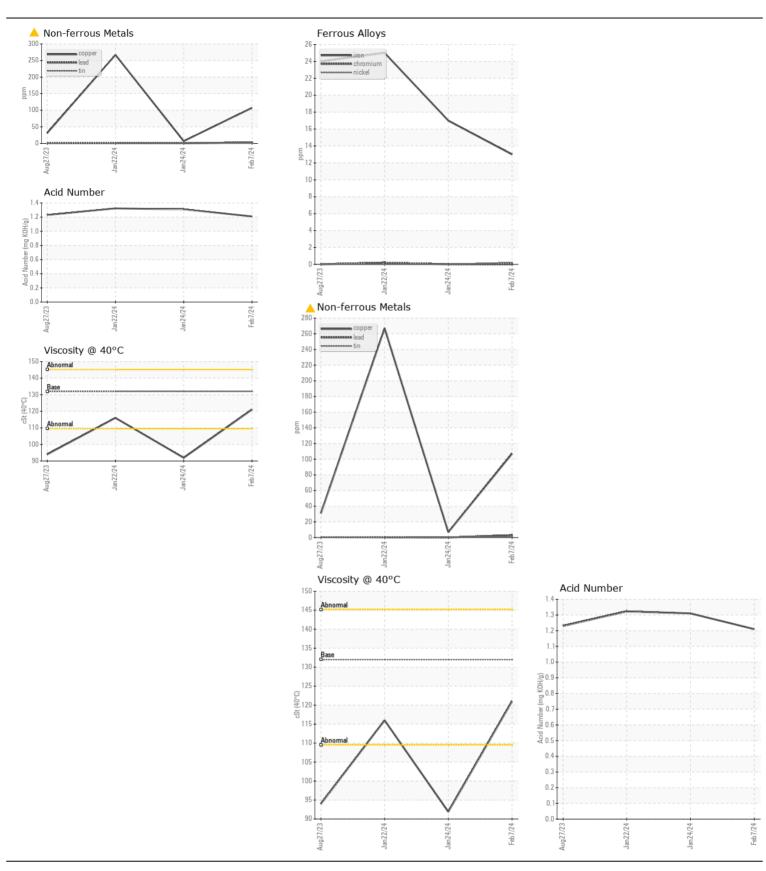
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MOBIL DELVAC 1640 ( GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the	Sample Number		Client Info		WC0859379	WC0891230	WC088655
next service interval to monitor.	Sample Date		Client Info		07 Feb 2024	24 Jan 2024	22 Jan 202
	Machine Age	hrs	Client Info		16717	14487	16713
	Oil Age	hrs	Client Info		4	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	Not Changd	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>150	13	17	25
The copper level is abnormal. All other component wear rates are	Chromium	ppm	ASTM D5185m	>10	0	0	<1
normal.	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	1	2
	Lead	ppm	ASTM D5185m	>100	3	0	<1
	Copper	ppm	ASTM D5185m	>50	<u> </u>	7	<u>△</u> 267
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	12	16	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	4
There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	MODEF
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		22	9	48
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		2	300	4
suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	6
	Molybdenum	ppm	ASTM D5185m		2	37	3
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		295	36	312
	Calcium	ppm	ASTM D5185m		3869	3000	3479
	Phosphorus	ppm	ASTM D5185m		939	770	816
	Zinc	ppm	ASTM D5185m		1096	818	1027
	Sulfur	ppm	ASTM D5185m		4061	3796	3541
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.21	1.31	1.323
		_					

91.9

121

116







Certificate L2367

Report Id: SEANEW [WUSCAR] 06104498 (Generated: 03/04/2024 17:42:16) Rev: 1

Laboratory Sample No.

: WC0859379 Lab Number : 06104498 Unique Number: 10902728 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed

: 29 Feb 2024 :01 Mar 2024 : 03 Mar 2024 - Doug Bogart **SEAWARD SERVICES** 

222 PEARL ST NEW ALBANY, IN US 47150

Contact: PETER CHARBONNET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

PCHARBONNET@HMS-SEAWARD.COM T:

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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