

## SEAWARD EXPLORER

## Machine Id Explorer Component 2 Genset

Z Genset

MOBIL DELVAC 1330 (--- GAL)

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<b>RECOMMENDATION</b> The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0859376	WC0818100	WC0818087
	Sample Date	la un	Client Info		07 Feb 2024	01 Sep 2023	25 Jul 2023
	Machine Age	hrs	Client Info		11697	0	11445
	Oil Age	hrs	Client Info		162	0	11275
	Filter Age	hrs	Client Info		162 Ohannad	0	11275 Observed
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed		Changed ABNORMAL
	Sample Status				ABNORMAL	ABNORMAL	ADINURIVIAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>50	7	8	10
	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m	>12	<1	<1	0
	Lead	ppm	ASTM D5185m	>17	<1	<1	0
	Copper	ppm	ASTM D5185m	>70	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		3	5	5
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		<1	0	0
	Fuel	%	ASTM D3524	>4.0	▲ 5.4		
	Water		WC Method WC Method	>0.1	NEG NEG	NEG NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7644	>20	5.8	6.1	6.1
	Sulfation	Abs/.1mm	*ASTM D7024		13.4	14.6	15.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		1	2	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		5	58	67
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1312	746	823
	Calcium	ppm	ASTM D5185m		874	1576	1804
	Phosphorus	ppm	ASTM D5185m		691	846	928
	Zinc	ppm	ASTM D5185m		829	1011	1079
	Sulfur	ppm	ASTM D5185m		2322	3639	4549

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 11.5

Base Number (BN) mg KOH/g ASTM D2896 13

7.9

7.4

10.0

7.1

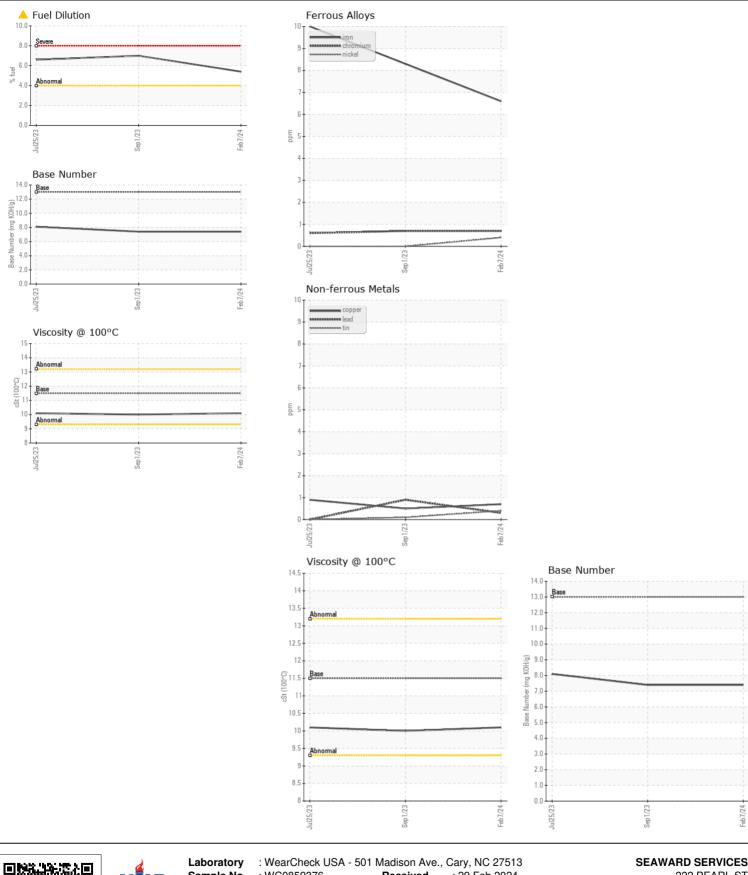
7.4

10.1

8.0

8.1

**1**0.1



SEAWARD SERVICES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0859376 Received 222 PEARL ST Sample No. : 29 Feb 2024 Lab Number : 06104057 : 04 Mar 2024 NEW ALBANY, IN Tested Unique Number : 10902287 : 04 Mar 2024 - Wes Davis US 47150 Diagnosed Test Package : MAR 2 ( Additional Tests: PercentFuel ) Contact: PETER CHARBONNET Certificate L2367 PCHARBONNET@HMS-SEAWARD.COM To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: