

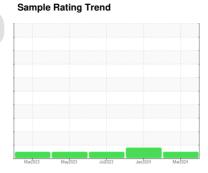
# **OIL ANALYSIS REPORT**



# SEAWARD ENDEAVOR **Endeavor**

1 Genset

CHEVRON DELO 400 XLE 15W40 (9 GAL)





### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

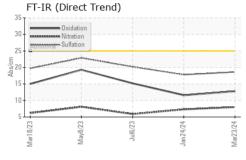
### **Fluid Condition**

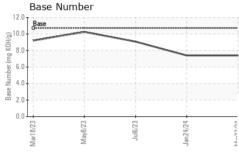
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

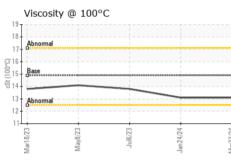
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0891211	WC0891237	WC0779526
Sample Date		Client Info		23 Mar 2024	24 Jan 2024	06 Jul 2023
Machine Age	hrs	Client Info		16820	16643	15099
Oil Age	hrs	Client Info		0	303	200
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	MARGINAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<u>2.5</u>	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	6	3
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	2	<1
Silver	ppm	ASTM D5185m	>5	0	<1	<1
Aluminum	ppm	ASTM D5185m	>12	1	1	1
Lead	ppm	ASTM D5185m	>17	0	1	0
Copper	ppm	ASTM D5185m	>70	2	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		22	28	386
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		8	10	82
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		82	79	381
Calcium	ppm	ASTM D5185m		2521	2376	1630
Phosphorus	ppm	ASTM D5185m	760	1022	968	1057
Zinc	ppm	ASTM D5185m	830	1215	1105	1238
Sulfur	ppm	ASTM D5185m	2770	4539	4515	3650
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	1	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.3	5.9
Sulfation	Abs/.1mm	*ASTM D7415		18.6	17.8	20.2
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	11.6	15.2
Base Number (BN)	mg KOH/g	<b>ASTM D2896</b>	10.7	7.4	7.4	9.07

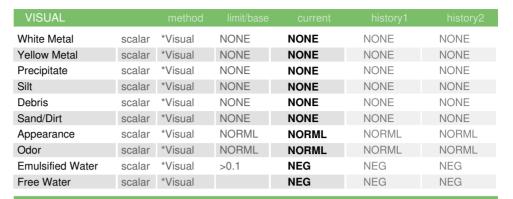


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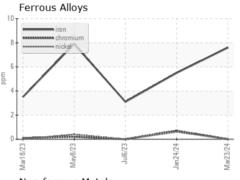


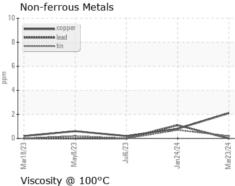


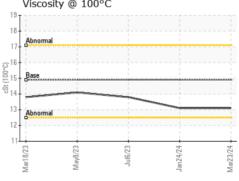


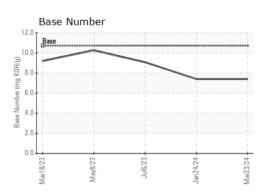
FLUID PROPER	HES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	14.9	13.1	13.1	13.8

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WC0891211 Lab Number : 06146502

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Unique Number : 10976580 Test Package : MAR 2

Received **Tested** Diagnosed

: 11 Apr 2024 : 12 Apr 2024

: 15 Apr 2024 - Sean Felton

**SEAWARD SERVICES** 222 PEARL ST NEW ALBANY, IN US 47150

Contact: PETER CHARBONNET 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: SEANEW [WUSCAR] 06146502 (Generated: 04/15/2024 16:01:39) Rev: 1

Contact/Location: PETER CHARBONNET - SEANEW

T:

F: