

## Machine Id KENNY EADS (S/N 73485046) Component Starboard Genset Fluid CHEVRON DELO 710 LS (5 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We	Sample Number		Client Info		MW0062326	MW0050356	MW0050418
recommend an early resample to monitor this condition.	Sample Date		Client Info		17 Dec 2023	09 Nov 2023	03 Oct 2023
	Machine Age	hrs	Client Info		39817	39375	38868
	Oil Age	hrs	Client Info		450	491	480
	Filter Age	hrs	Client Info		450	491	480
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	2	4	<1
	Chromium	ppm	ASTM D5185m	>4	0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	1
	Lead	ppm	ASTM D5185m		- <1	0	0
	Copper	ppm	ASTM D5185m	>70	0	0	0
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0:1:			05	•	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185m		2	2	2
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium Fuel	ppm	ASTM D5185m		2	2 <b>1</b> 7.5	0
		%	ASTM D3524		▲ 4.9 NEG		<1.0
	Water Glycol		WC Method WC Method	>0.1	NEG	NEG NEG	NEG NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7644	>20	8.1	9.0	7.3
	Sulfation	Abs/.1mm	*ASTM D7024		14.5	15.2	14.1
	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	0	0
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		42	41	38
	Barium	ppm	ASTM D5185m		0	2	<1
	Molybdenum	ppm	ASTM D5185m		43	46	40
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		20	12	17
	Calcium	ppm	ASTM D5185m		3169	3399	3090
	Phosphorus	ppm	ASTM D5185m		9	22	6
	Zinc	ppm	ASTM D5185m		5	0	6
	Sulfur	ppm	ASTM D5185m		2157	2055	2013

Oxidation

Visc @ 100°C cSt

10.2

7.0

12.3

9.0

6.8

12.4

Abs/.1mm \*ASTM D7414 >25

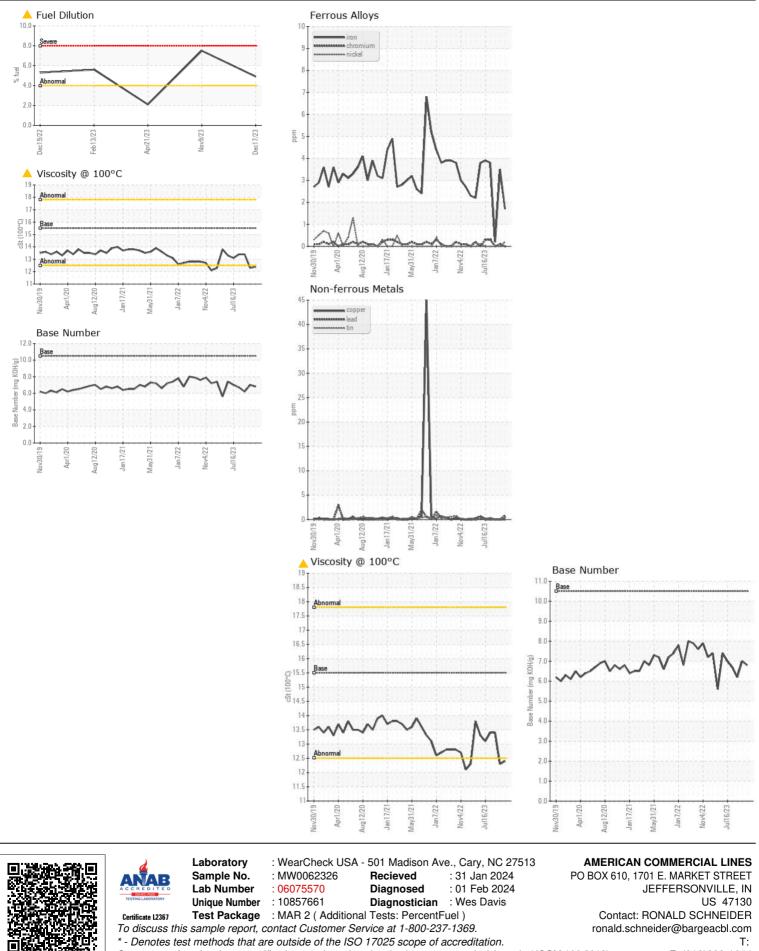
ASTM D445 15.5

Base Number (BN) mg KOH/g ASTM D2896 10.5

8.3

6.2

13.4



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

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