

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

Oil Age

Area **IBACO** [CONHER] **IBACO BM COZAR IX**

Main Engine Fluic **RALOY 15W40 (160 LTR)**

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy 15W40)

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



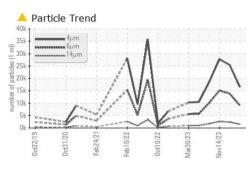
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	5	6	8
Chromium	ppm	ASTM D5185m	>8	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	1	2	1
Lead	ppm	ASTM D5185m	>18	<1	1	<1
Copper	ppm	ASTM D5185m	>80	<1	1	3
Tin	ppm	ASTM D5185m	>14	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1

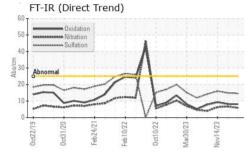
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	12	98
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		9	3	19
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		21	18	87
Calcium	ppm	ASTM D5185m		2971	2579	2471
Phosphorus	ppm	ASTM D5185m		1053	1070	1118
Zinc	ppm	ASTM D5185m		1184	1277	1274
Sulfur	ppm	ASTM D5185m		4242	3130	3887
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	7	8
Sodium	ppm	ASTM D5185m	>75	0	0	3
Potassium	ppm	ASTM D5185m	>20	<1	2	4
Fuel	0/		4.0	.1.0		

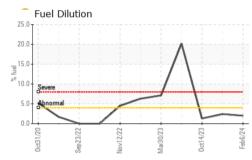
Fuel	%	ASTM D3524	>4.0	<1.0	<u> </u>	<u> </u>
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.9	6.7	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.6	14.9	16.0

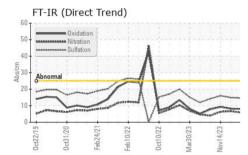


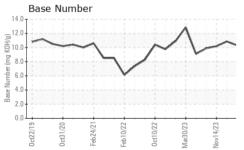
OIL ANALYSIS REPORT



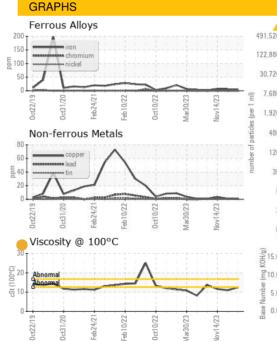


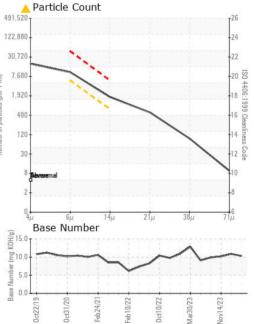


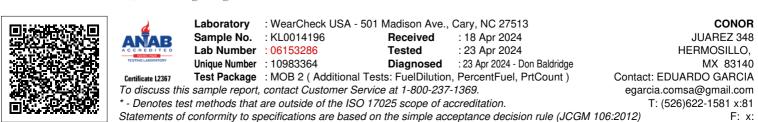












Report Id: CONHERKL [WUSCAR] 06153286 (Generated: 04/23/2024 14:49:33) Rev: 1

Submitted By: EDUARDO GARCIA

Page 2 of 2