

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

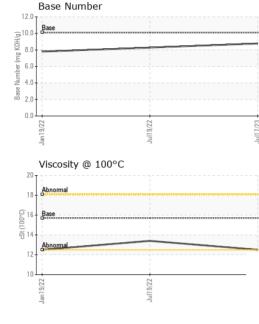
Fluid Condition

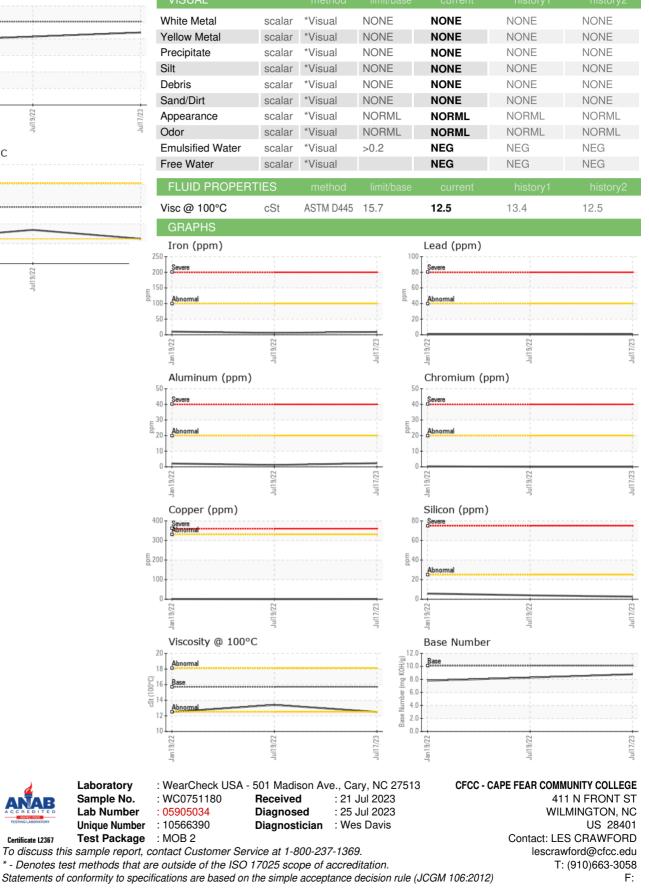
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jan	2022	Jul2022 Jul20	23	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0751180	WC0623134	WC0623137
Sample Date		Client Info		17 Jul 2023	19 Jul 2022	19 Jan 2022
Machine Age	mls	Client Info		142087	140532	140384
Oil Age	mls	Client Info		1550	200	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٨	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9	6	10
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	1	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
Caamam	ppm	ASTIVI DOTODITI		U	< 1	0
ADDITIVES	ppin	method	limit/base	current	<1 history1	history2
	ppm		limit/base 316			
ADDITIVES		method		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	316	current 217	history1 228	history2 81
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	316 0.0	current 217 <1	history1 228 0	history2 81 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	316 0.0	current 217 <1 2	history1 228 0 11	history2 81 0 71
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	316 0.0 1.2	217 <1 2 0	history1 228 0 11 0	history2 81 0 71 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	316 0.0 1.2 24	current 217 <1 2 0 30	history1 228 0 11 0 16	history2 81 0 71 <1 18
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	316 0.0 1.2 24 2292	Current 217 <1 2 0 30 2373	history1 228 0 11 0 16 2424	history2 81 0 71 <1 18 2013
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	316 0.0 1.2 24 2292 1064	Current 217 <1 2 0 30 2373 1059	history1 228 0 11 0 16 2424 1078	history2 81 0 71 <1 18 2013 925
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996	Current 217 <1 2 0 30 2373 1059 1235 4187 Current	history1 228 0 11 0 16 2424 1078 1252 4680 history1	history2 81 0 71 <1 18 2013 925 1112 3327 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996	Current 217 <1 2 0 30 2373 1059 1235 4187 Current 3	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996	current 217 <1 2 0 30 2373 1059 1235 4187 Current 3 2	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4 3	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996 limit/base	Current 217 <1 2 0 30 2373 1059 1235 4187 Current 3	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996 limit/base >25	current 217 <1 2 0 30 2373 1059 1235 4187 current 3 2 10 current	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4 3 6 history1	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6 3 <1 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	method ASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996 limit/base >25 >20 limit/base	current 217 <1 2 0 30 2373 1059 1235 4187 current 3 2 10 current 0.2	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4 3 6 history1 0.1	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6 3 <1 history2 0 0.2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996 limit/base >25 >20 limit/base >3 >20	current 217 <1 2 0 30 2373 1059 1235 4187 current 3 2 10 current 0.2 6.5	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4 3 6 history1 0.1 6.6	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6 3 <1 history2 6 3 <1 history2 6 3 <1 history2 0.2 8.2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	method ASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996 limit/base >25 >20 limit/base	current 217 <1 2 0 30 2373 1059 1235 4187 current 3 2 10 current 0.2	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4 3 6 history1 0.1	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6 3 <1 history2 0 0.2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996 limit/base >25 >20 limit/base >3 >20	current 217 <1 2 0 30 2373 1059 1235 4187 current 3 2 10 current 0.2 6.5	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4 3 6 history1 0.1 6.6	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6 3 <1 history2 6 3 <1 history2 6 3 <1 history2 0.2 8.2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	316 0.0 1.2 24 2292 1064 1160 4996 imit/base >25 >20 imit/base >3 >20 >30	current 217 <1 2 0 30 2373 1059 1235 4187 current 3 2 10 current 0.2 6.5 20.2	history1 228 0 11 0 16 2424 1078 1252 4680 history1 4 3 6 history1 0.1 6.6 21.0	history2 81 0 71 <1 18 2013 925 1112 3327 history2 6 3 <1 history2 0 0.2 8.2 19.1



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Certificate L2367

Contact/Location: LES CRAWFORD - CFCWIL