

OIL ANALYSIS REPORT

Machine Id MCQUAY CAMALIER BLDG CH-2 (S/N 5781076-00) Component

Component Refrigeration Compressor Fluid

EMKARATE RL 32H (8 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

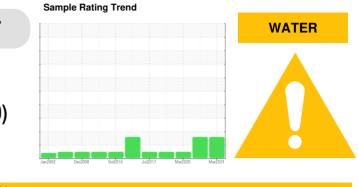
All component wear rates are normal.

Contamination

There is a trace of moisture present in the oil.

Fluid Condition

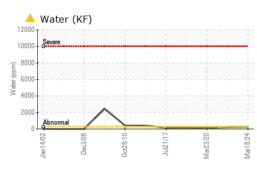
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

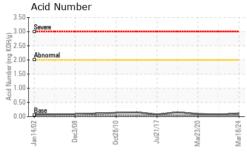


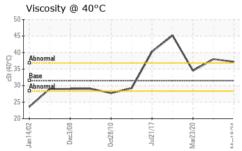
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0660703	WC0384482	WC0384346
Sample Date		Client Info		18 Mar 2024	16 Apr 2021	23 Mar 2020
Machine Age	hrs	Client Info		53980	48290	45940
Oil Age	hrs	Client Info		53980	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				MARGINAL	MARGINAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17	10	6
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	0	<1	0
Lead	ppm	ASTM D5185m	>2	0	<1	<1
Copper	ppm	ASTM D5185m	>100	0	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
-			0	0	1	<1
Boron	ppm	ASTM D5185m	0	0	I	
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0	0 0	0 0	0 <1
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	0 0 <1	0 0 0	0 <1 0
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0	0 0 <1 <1	0 0 0 0	0 <1 0 0 14
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0	0 0 <1 <1 0	0 0 0 0	0 <1 0 0 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 5	0 0 <1 <1 0 36	0 0 0 0 0 18	0 <1 0 0 0 14
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 5 10	0 0 <1 <1 0 36 16	0 0 0 0 18 16	0 <1 0 0 0 14 15
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 5 10 50	0 0 <1 <1 0 36 16 53	0 0 0 0 18 16 33 history1 5	0 <1 0 0 0 14 15 20
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 5 10 50 limit/base	0 0 <1 <1 0 36 16 53 current	0 0 0 0 18 16 33 history1	0 <1 0 0 14 15 20 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 0 0 0 5 10 50 limit/base	0 0 <1 <1 0 36 16 53 current 4	0 0 0 0 18 16 33 history1 5	0 <1 0 0 14 15 20 history2 10
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	0 0 0 0 5 10 50 10 50 Limit/base >50	0 0 <1 <1 0 36 16 53 current 4 0	0 0 0 0 18 16 33 history1 5 0	0 <1 0 0 14 15 20 history2 10 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 5 10 50 10 50 10 50 250	0 0 <1 <1 0 36 16 53 <u>current</u> 4 0 <1	0 0 0 0 18 16 33 <u>history1</u> 5 0 0	0 <1 0 0 14 15 20 history2 10 0 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 0 5 10 50 10 50 10 50 20 >20 >0.02	0 0 <1 <1 0 36 16 53 <u>current</u> 4 0 <1 ▲ 0.026	0 0 0 0 18 16 33 history1 5 0 0 0	0 <1 0 0 14 15 20 history2 10 0 0 0.011



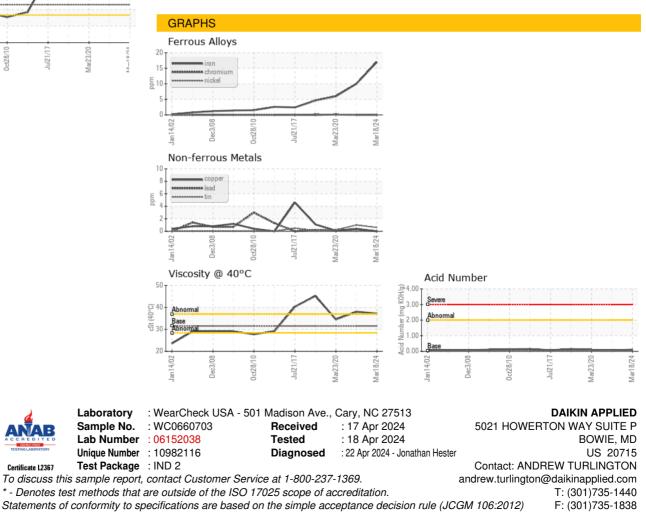
OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	scalar	*Visual	>0.02	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.5	37.2	38.0	34.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				unalier BIDC- UB2		
Bottom					F	



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Contact/Location: ANDREW TURLINGTON - MCQUPP

Page 2 of 2