

PROBLEM SUMMARY

Machine Id **FS CURTIS HEV1F22132 - SPECIALTY PRODUCTS** Component

Compressor Fluid NOT GIVEN (40 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you use depth filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS Sample Status SEVERE SEVERE SEVERE MPC Varnish Potential Scale ASTM D7843 >15 42 44 --

Customer Id: AIRGREWC Sample No.: WC0874261 Lab Number: 05996823 Test Package: IND 2



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To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS									
Action	Status	Date	Done By	Description					
Resample			?	We recommend an early resample to monitor this condition.					
Filter Fluid			?	We recommend that you use electrostatic filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level.					

HISTORICAL DIAGNOSIS



28 Jul 2023 Diag: Jonathan Hester

We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

23 Jun 2023 Diag: Jonathan Hester

DEGRADATION



We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish. The oil is no longer serviceable.



view report



OIL ANALYSIS REPORT

FS CURTIS HEV1F22132 - SPECIALTY PRODUCTS

Compressor Fluid NOT GIVEN (40 GAL)

DIAGNOSIS

Recommendation

We recommend that you use depth filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present.

Fluid Condition

The AN level is acceptable for this fluid.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874261	WC0745399	WC0831407
Sample Date		Client Info		01 Nov 2023	28 Jul 2023	23 Jun 2023
Machine Age	hrs	Client Info		0	5337	5032
Oil Age	hrs	Client Info		6677	305	5032
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	0	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		172	12	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	2	4
Calcium	ppm	ASTM D5185m		2	<1	0
Phosphorus	ppm	ASTM D5185m		30	350	135
Zinc	ppm	ASTM D5185m		11	8	5
Sulfur	ppm	ASTM D5185m		693	564	63
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	3
Sodium	ppm	ASTM D5185m		85	30	26
Potassium	ppm	ASTM D5185m	>20	6	4	5
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.90	• 7.34	934.09
MPC Varnish Potential	Scale	ASTM D7843	>15	• 42	44	
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
Cilt	coalar	*\/ieual	NONE	NONE	NONE	NONE

Debris

Odor

Sand/Dirt

Appearance

Emulsified Water

scalar

scalar

scalar

scalar

*Visual

*Visual

*Visual

*Visual

scalar *Visual

scalar *Visual

NONE

NONE

NORML

NORML

>0.1

NONE

NONE

NORML

NORML

NEG

NEG

NONE

NONE

NORML

NORML

NEG

NONE

NONE

NORML

NORML

NEG

: DaNescBurcham - ANEGREWC



OIL ANALYSIS REPORT



Contact/Location: Dallas Burcham - AIRGREWC





Report Id: AIRGREWC [WUSCAR] 05996823 (Generated: 11/08/2023 07:43:47) Rev: 1

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