

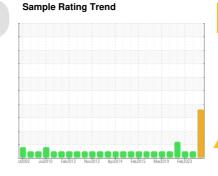
PROBLEM SUMMARY

Caster/Basement

Cooper Airmist Compressor #3

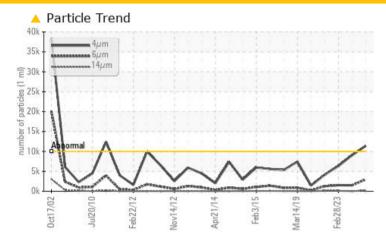
Air Compressor

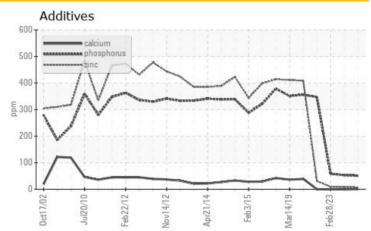
PETRO CANADA HYDREX AW 46 (90 GAL)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drainoff procedure for this component. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for topup/fill. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	NORMAL	NORMAL			
Particles >4µm		ASTM D7647	>10000	<u> </u>	9075	6354			
Particles >6µm		ASTM D7647	>2500	2963	1494	1523			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>^</u> 21/19/15	20/18/12	20/18/14			
Appearance	scalar	Visual*	NORML	WGOIL	NORML	NORML			
Free Water	scalar	Visual*		1 %	NEG	NEG			

Customer Id: LEWBOSC Sample No.: WC0850098 Lab Number: 02576269 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component.
Resample			?	We recommend an early resample to monitor this condition.
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Water Access			?	We advise that you check for the source of water entry.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

30 May 2023 Diag: Bill Quesnel

NORMAL



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



28 Feb 2023 Diag: Kevin Marson

NORMAL



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



26 Oct 2022 Diag: Kevin Marson

ADDITIVES



Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil.





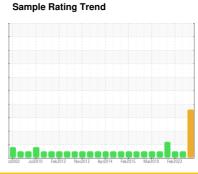
OIL ANALYSIS REPORT

Caster/Basement

Cooper Airmist Compressor #3

Air Compressor

PETRO CANADA HYDREX AW 46 (90 GAL)





DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. Free water present.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0850098	WC0824352	WC0796840
Sample Date		Client Info		16 Aug 2023	30 May 2023	28 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>99999	0	0	0
Iron	ppm	ASTM D5185(m)	>50	<1	<1	0
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	0
Lead	ppm	ASTM D5185(m)	>20	<1	0	0
Copper	ppm	ASTM D5185(m)	>40	<1	0	0
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
			0	0	0	
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	0	0	0	<1
	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese Magnesium	ppm	ASTM D5185(m)	0	<1	0	<1
Calcium	ppm	ASTM D5185(m)	50	<1	0	0
Phosphorus	ppm	ASTM D5185(m)	330	51	53	58
Zinc	ppm	ASTM D5185(m)	430	7	8	9
Sulfur	ppm	ASTM D5185(m)	760	2581	2657	2623
Lithium	ppm	ASTM D5185(m)	700	<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	0	0	0
Sodium	ppm	ASTM D5185(m)		<1	0	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Water	%	ASTM D6304*	>0.6	0.002	0.00	0.003
ppm Water	ppm	ASTM D6304*	>6000	17.5	0.00	25.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	11387	9075	6354
•				_ 11307		
Particles >6µm		ASTM D7647	>2500	△ 2963	1494	1523
Particles >6µm Particles >14µm			>2500 >320		1494 23	1523 108
		ASTM D7647		2963		
Particles >14μm		ASTM D7647 ASTM D7647	>320	△ 2963 178	23	108
Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647 ASTM D7647	>320 >80	△ 2963 178 39	23 3	108 24

Submitted By: Bob Melanson



OIL ANALYSIS REPORT



Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (519)587-7702