

Sample Rating Trend

K-2002 Instrument Air Compressor

Tank Air Compressor Fluid CASTROL Alpha HC 68 (--- GAL)

DIAGNOSIS

A Recommendation

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

Wear

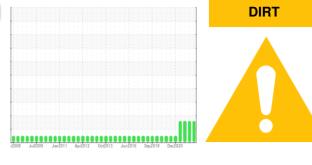
All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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



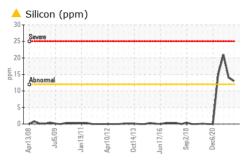
Sample Date Client Info 22 Mar 2024 03 Jan 2024 12 Oct 2023 Machine Age hrs Client Info 0 0 0 Dil Age hrs Client Info 0 0 0 Dil Changed Client Info N/A N/A N/A Sample Status Client Info N/A ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >70 <1	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Dil Age hrs Client Info N/A N/A N/A N/A Dil Changed Client Info N/A N/A N/A N/A N/A Sample Status Client Info N/A ABNORMAL ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limik/base current history1 history2 Water WC Method >0.1 NEG NEG NEG VEAR METALS method limik/base current history1 history2 ron ppm ASTM D5165m >70 <1	Sample Number		Client Info		HLC0003103	HLC0003124	HLC0002314
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ron ppm ASTM D5185m >70 <1 <1 0 Chromium ppm ASTM D5185m >15 <1	Water		WC Method	>0.1	NEG	NEG	NEG
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Dromium ppm ASTM D5185m >15 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <td>Iron</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>70</td> <th><1</th> <td><1</td> <td>0</td>	Iron	ppm	ASTM D5185m	>70	<1	<1	0
Nickel ppm ASTM D5185m >6 <1 <1 0 Titanium ppm ASTM D5185m <1				>15	<1	<1	
Fitanium ppm ASTM D5185m <1 <1 <1 0 Silver ppm ASTM D5185m >10 2 2 <1					<1	<1	
Silver ppm ASTM D5185m <1 <1 <1 0 Aluminum ppm ASTM D5185m >10 2 2 <1 Lead ppm ASTM D5185m >20 <1 <1 0 Copper ppm ASTM D5185m >80 <1 <1 0 Vanadium ppm ASTM D5185m >15 <1 <1 0 Vanadium ppm ASTM D5185m >15 <1 <1 0 Qandium ppm ASTM D5185m <1 <1 0 0 Cadmium ppm ASTM D5185m <1 <1 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1 <1 <1 <1 Maganese ppm ASTM D5185m <1 <1 <1 <1 Maganese ppm ASTM D5185m <2 <11 <1 <1 Phosphorus ppm ASTM D5185m <2 <13 <td></td> <td></td> <td></td> <td></td> <th></th> <td><1</td> <td></td>						<1	
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Manganese ppm ASTM D5185m <1 <1 0 Magnesium ppm ASTM D5185m 2 <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 2 <1 0 Calcium ppm ASTM D5185m 5 4 1 Phosphorus ppm ASTM D5185m 0 <1 0 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 562 211 228 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >12 13 14 21 Sodium ppm ASTM D5185m >20 1 <1 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >2500 639 813 1273 Particles >4µm ASTM D7647 >320 21 31 11 Particles >21µm ASTM D7647 >20 2 0 0 Particles >38µm ASTM D7647	Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Calcium ppm ASTM D5185m 5 4 1 Phosphorus ppm ASTM D5185m 0 <1	Manganese	ppm	ASTM D5185m		<1	<1	0
Phosphorus ppm ASTM D5185m 0 <1 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 562 211 228 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >12 13 14 21 Sodium ppm ASTM D5185m >12 13 14 21 Sodium ppm ASTM D5185m >20 1 <1	Magnesium	ppm	ASTM D5185m		2	<1	0
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CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>12▲ 13▲ 14▲ 21SodiumppmASTM D5185m>000PotassiumppmASTM D5185m>201<1	Zinc	ppm	ASTM D5185m		0	0	0
Silicon ppm ASTM D5185m >12 ▲ 13 ▲ 14 ▲ 21 Sodium ppm ASTM D5185m >12 ▲ 13 ▲ 14 ▲ 21 Sodium ppm ASTM D5185m >0 0 0 0 Potassium ppm ASTM D5185m >20 1 <14 ▲ 21 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >2500 639 813 1273 Particles >6µm ASTM D7647 >320 21 31 11 Particles >14µm ASTM D7647 >320 21 31 11 Particles >21µm ASTM D7647 >20 2 0 0 Particles >38µm ASTM D7647 >20 2 0 0 Particles >71µm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 19/16/12 20/17/12 21/17/11 <	Sulfur	ppm	ASTM D5185m		562	211	228
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Particles >6µm ASTM D7647 >2500 639 813 1273 Particles >14µm ASTM D7647 >320 21 31 11 Particles >21µm ASTM D7647 >80 7 7 3 Particles >38µm ASTM D7647 >20 2 0 0 Particles >38µm ASTM D7647 >4 1 0 0 Particles >71µm ASTM D7647 >4 1 0 0 Dil Cleanliness ISO 4406 (c) >/18/15 19/16/12 20/17/12 21/17/11 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
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Particles >71µm ASTM D7647 >4 1 0 0 Dil Cleanliness ISO 4406 (c) >/18/15 19/16/12 20/17/12 21/17/11 FLUID DEGRADATION method limit/base current history1 history2							
Dil Cleanliness ISO 4406 (c) >/18/15 19/16/12 20/17/12 21/17/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm			>20	2	0	0
	Particles >21μm Particles >38μm		ASTM D7647				
	Particles >14μm Particles >21μm Particles >38μm Particles >71μm Oil Cleanliness		ASTM D7647 ASTM D7647	>4	1	0	0
	Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness		ASTM D7647 ASTM D7647 ISO 4406 (c)	>4 >/18/15	1 19/16/12	0 20/17/12	0 21/17/11

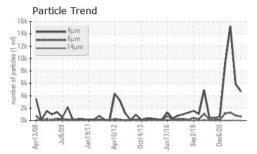
Report Id: BPEEND [WUSCAR] 06131453 (Generated: 04/05/2024 15:28:13) Rev: 1

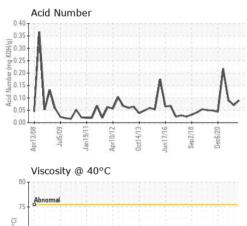
Contact/Location: SEAN LOWTHER - BPEEND

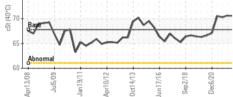


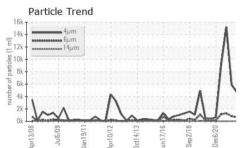
OIL ANALYSIS REPORT





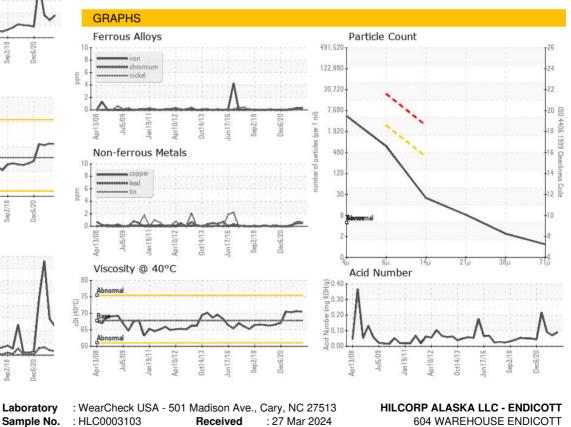






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	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	67.8	70.5	70.6	70.3
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				•		
				1/cont		1

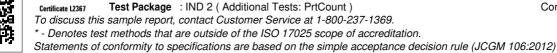
Bottom



: 04 Apr 2024

: 04 Apr 2024 - Jonathan Hester





Tested

Diagnosed

Lab Number : 06131453

Unique Number : 10950918

PRUDHOE BAY, AK US 99734 Contact: SEAN LOWTHER slowther@hilcorp.com T: (907)659-6800 S:2012) F:

Report Id: BPEEND [WUSCAR] 06131453 (Generated: 04/05/2024 15:28:13) Rev: 1

Contact/Location: SEAN LOWTHER - BPEEND