

OIL ANALYSIS REPORT

Sample Rating Trend





Area **{UNASSIGNED}** [3] **YORK Old Main Chiller 3 (S/N SHDM-675630)** Screw Compressor Fluid

YORK TYPE C (8 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. (Customer Sample Comment: Routine maintenance)

🔺 Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0827228		
Sample Date		Client Info		15 Apr 2024		
Machine Age	hrs	Client Info		40100		
Oil Age	hrs	Client Info		40100		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	4 94		
Chromium	ppm	ASTM D5185m	>4	0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>5	0		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>30	10		
Tin	ppm	ASTM D5185m	>15	10		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m	0	3		
Magnesium	ppm	ASTM D5185m	0	<1		
Calcium	ppm		0	0		
Phosphorus	ppm	ASTM D5185m	0	0		
Zinc	ppm		0	0		
Sulfur	ppm	ASTM D5185m	200	19		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304		<u> </u>		
ppm Water	ppm	ASTM D6304		▲ 835		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	13316		
Particles >6µm		ASTM D7647	>2500	2645		
Particles >14µm		ASTM D7647	>320	44		
Particles >21µm		ASTM D7647		6		
Particles >38µm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	0 21/19/13		
FLUID DEGRADA		method	limit/base	current	history1	history2
					history	mistory2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.11	0.084		



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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3955 PINNACLE COURT SUITE 200

history1

history

history1

no image

no image

214

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

current

current

Particle Count

Acid Number

Abnorma

491.5

122,88

30 72

7.68

1,920

480 120

31

(mg KOH/g)

Ê 0.05

0.00

Apr15/24

Acid

(per 1 ml)

NEG

NEG

63.9

history2

history

history2

no image

no imade

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