

OIL ANALYSIS REPORT

HOWDEN COMPRESSOR #4 (S/N MK2E2/XRV163193MVI/232)

Component **Refrigeration Compressor**

CAMCO 717 HT (50 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

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		USP248603	USP099916	USP099918
Sample Date		Client Info		18 Sep 2023	23 Nov 2009	18 Nov 2009
Machine Age	hrs	Client Info		135	5562	5562
Oil Age	hrs	Client Info		0	5562	5562
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	<1	1
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	0	1	1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		10	73	68
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	5	1
Water	%	ASTM D6304	>0.01	0.001	0.004	0.004
ppm Water	ppm	ASTM D6304	>100	14.5	40	40
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	7128	371	2833
Particles >6µm		ASTM D7647	>2500	1355	202	1543
Particles >14µm		ASTM D7647	>320	42	34	262
Particles >21µm		ASTM D7647	>80	8	11	88
Particles >38µm		ASTM D7647	>20	1	1	13
Particles >71µm		ASTM D7647	>4	0	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/18/13	16/15/12	19/18/15
FLUID DEGRADA	TION	method	limit/base	current	historv1	historv2

Acid Number (AN)

mg KOH/g ASTM D974 0.007

0.015 0.005

Report Id: VERJEF [WUSCAR] 05959851 (Generated: 09/27/2023 08:52:14) Rev: 1

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