

OIL ANALYSIS REPORT

Sample Rating Trend ISO

Machine Id

HSC-1 (S/N 22301-001-1-01-03 V2603)

Refrigeration Compressor

USPI ALT-68 SC (35 GAL)

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

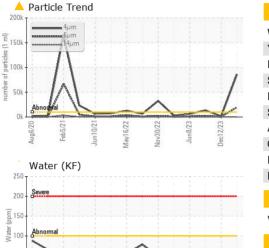
Fluid Condition

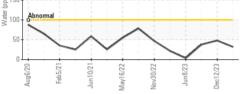
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

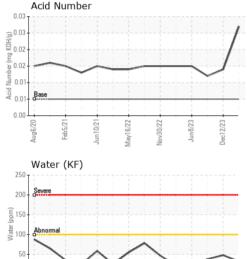
	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36667	USP0004198	USP0001936
Sample Date		Client Info		09 Apr 2024	12 Dec 2023	15 Sep 2023
Machine Age	hrs	Client Info		15017	12203	10254
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	0	<1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	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	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	1	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm		limit/base	current 0	<mark>history1</mark> <1	history2 <1
CONTAMINANTS Silicon Sodium						
Silicon	ppm	ASTM D5185m		0	<1	<1
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>15 >20	0 0	<1 0	<1 0
Silicon Sodium Potassium Water	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20 >0.01	0 0 2	<1 0 2	<1 0 1
Silicon Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>15 >20 >0.01	0 0 2 0.003	<1 0 2 0.004	<1 0 1 0.003
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>15 >20 >0.01 >100 limit/base >10000	0 0 2 0.003 32 current & 86090	<1 0 2 0.004 48	<1 0 1 0.003 37.9 history2 0 13336
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base	0 0 2 0.003 32 current	<1 0 2 0.004 48 history1	<1 0 1 0.003 37.9 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500 >320	0 0 2 0.003 32 <u>current</u> ▲ 86090 ▲ 19607 88	<1 0 2 0.004 48 history1 1575 490 15	<1 0 1 0.003 37.9 history2 13336 2314 57
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500	0 0 2 0.003 32 <u>current</u> ▲ 86090 ▲ 19607	<1 0 2 0.004 48 history1 1575 490	<1 0 1 0.003 37.9 history2 0 13336 2314
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500 >320	0 0 2 0.003 32 <u>current</u> ▲ 86090 ▲ 19607 88	<1 0 2 0.004 48 history1 1575 490 15	<1 0 1 0.003 37.9 history2 13336 2314 57
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500 >320 >80	0 0 2 0.003 32 <u>current</u> ▲ 86090 ▲ 19607 88 10	<1 0 2 0.004 48 history1 1575 490 15 2	<1 0 1 0.003 37.9 history2 0 13336 2314 57 13
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500 >320 >80 >20	0 0 2 0.003 32 <u>current</u> ▲ 86090 ▲ 19607 88 10 1	<1 0 2 0.004 48 history1 1575 490 15 2 0	<1 0 1 0.003 37.9 history2 13336 2314 57 13 2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm ESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500 >320 >320 >80 >20 >4	0 0 2 0.003 32 <urrent ▲ 86090 ▲ 19607 88 10 1 0</urrent 	<1 0 2 0.004 48 history1 1575 490 15 2 0 0 0	<1 0 1 0.003 37.9 history2 13336 2314 57 13 2 2 0

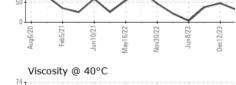


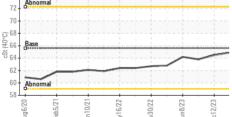
OIL ANALYSIS REPORT





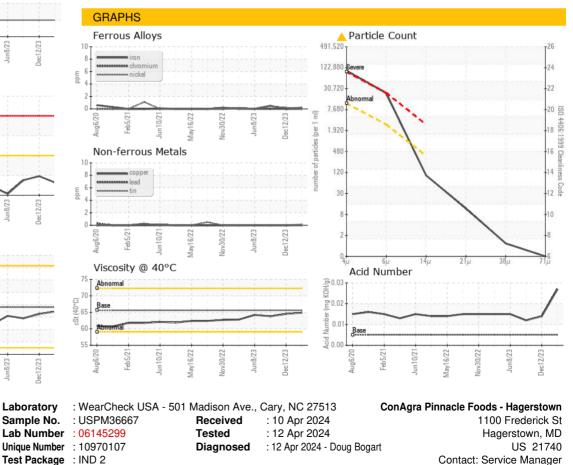






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	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	65.6	64.9	64.5	63.8
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						AND CHURCH

Bottom



To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

T: F:

Certificate 12367

Contact/Location: Service Manager - CAGHAG Page 2 of 2