

OIL ANALYSIS REPORT

Sample Rating Trend



C-4 (S/N X0173FPMPWHAA3) Component

Refrigeration Compressor

USPI 1009-68 SC (85 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.

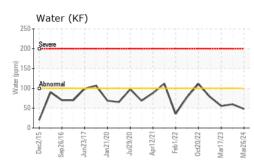
Fluid Condition

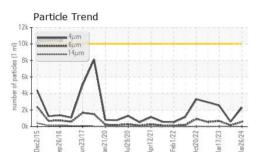
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

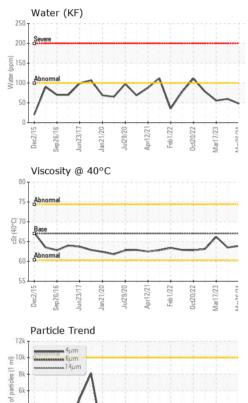
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		USP249026	USP249027	USP250638				
Sample Date		Client Info		26 Mar 2024	25 Aug 2023	17 Mar 2023				
Machine Age	hrs	Client Info		80663	75866	72206				
Oil Age	hrs	Client Info		36443	28027	28027				
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd				
Sample Status				NORMAL	NORMAL	NORMAL				
WEAR METALS		method	limit/base	current	history1	history2				
Iron	ppm	ASTM D5185m	>8	0	0	<1				
Chromium	ppm	ASTM D5185m	>2	<1	0	0				
Nickel	ppm	ASTM D5185m		<1	0	0				
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		0	0	<1				
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		0	1	0				
Calcium	ppm	ASTM D5185m		0	0	0				
Phosphorus		ASTM D5185m		0	0	0				
Zinc	ppm	ASTM D5185m		0	0	0				
Sulfur	ppm	ASTM D5185m	50	0	9	38				
	ppm			-	-					
CONTAMINANTS		method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>15	<1	1	1				
Sodium	ppm	ASTM D5185m		<1	0	0				
Potassium	ppm	ASTM D5185m	>20	<1	<1	0				
Water	%	ASTM D6304	>0.01	0.004	0.005	0.005				
ppm Water	ppm	ASTM D6304	>100	48	59.8	55.6				
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2				
Particles >4µm		ASTM D7647	>10000	2291	586	2548				
Particles >6µm		ASTM D7647		571	160	670				
Particles >14µm		ASTM D7647	>320	22	19	30				
Particles >21µm		ASTM D7647		6	5	3				
Particles >38µm		ASTM D7647	>20	0	0	0				
Particles >71µm		ASTM D7647		0	0	0				
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/12	16/14/11	19/17/12				
FLUID DEGRADA	TION	method	limit/base	current	history1	history2				
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.028	0.015	0.02				



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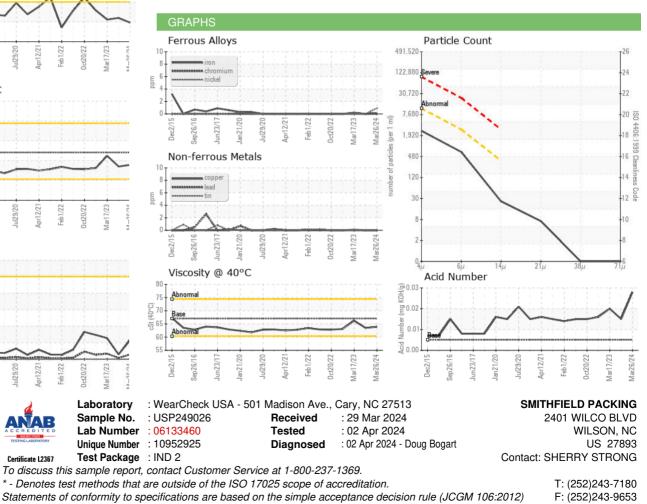


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	63.9	63.5	66.2
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						н Л. Вл297 С
Bottom					1 Com	



Contact/Location: SHERRY STRONG - SMIWIL