

OIL ANALYSIS REPORT

Area PHS AND PLS SYSTEM Machine Id RECYCLED NH3 SYSTEM 1 Component

Refrigeration Compressor Fluid USPI ALT-68 SC (--- GAL)

DIAGNOSIS

Recommendation

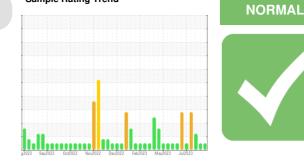
This is a baseline read-out on the submitted sample. COMP 8 PHS BEFORE FILTERS

Contamination

There is a trace of moisture present in the oil. 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 Rating Trend

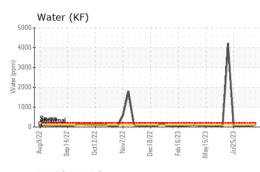
SAMPLE INFORM	/ ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP248082	USP248078	USP248080
Sample Date		Client Info		27 Sep 2023	17 Sep 2023	22 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	-	history1	history2
Iron	nom	ASTM D5185m	>8	0	11	36
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
	ppm			0		0
Titanium Silver	ppm	ASTM D5185m	. 0	-	0	0
	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m		<1	<1	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
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		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	<1	1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	4
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.01	0.011	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	112.6	38.8	33.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	5244	874	▲ 18500
Particles >6µm		ASTM D7647	>2500	1254	125	A 3706
Particles >14µm		ASTM D7647	>320	59	8	20
Particles >21µm		ASTM D7647	>80	13	3	3
Particles >38µm		ASTM D7647	>20	0	1	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/17/13	17/14/10	▲ 21/19/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.015	0.015

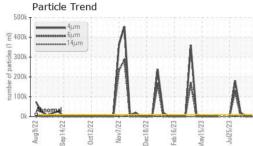
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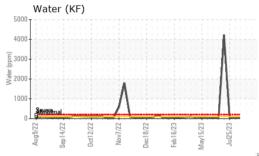
Contact/Location: SERVICE MANAGER - SMITAR



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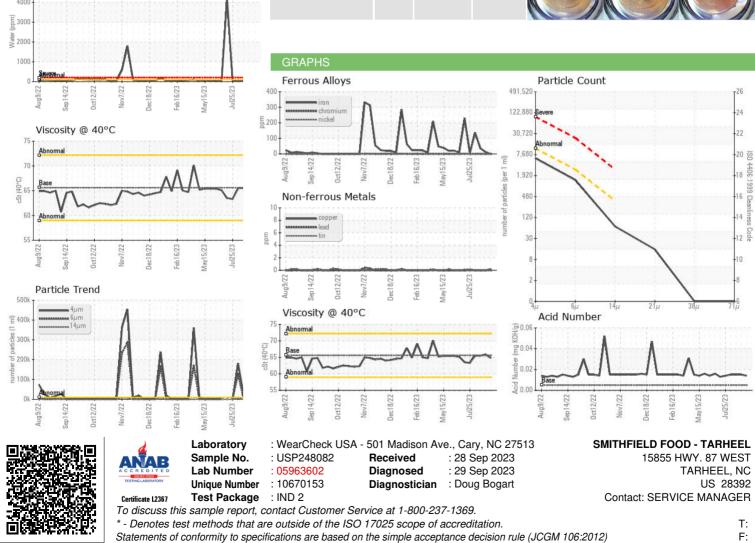






Vhite Metal	scalar *Visu	ial NONE	NONE	NONE	NONE
ellow Metal	scalar *Visu	al NONE	NONE	NONE	NONE
Precipitate	scalar *Visu	ial NONE	NONE	NONE	NONE
Silt	scalar *Visu	ial NONE	NONE	NONE	NONE
)ebris s	scalar *Visu	ial NONE	NONE	NONE	NONE
and/Dirt s	scalar *Visu	al NONE	NONE	NONE	NONE
ppearance	scalar *Visu	ial NORML	NORML	NORML	NORML
Ddor s	scalar *Visu	ial NORML	NORML	NORML	NORML
mulsified Water	scalar *Visu	ial >0.01	NEG	NEG	NEG
ree Water s	scalar *Visu	ıal	NEG	NEG	NEG
FLUID PROPERTIE	ES met	thod limit/bas	se current	history1	history2
/isc @ 40°C	cSt ASTM	1 D445 65.6	64.8	65.8	65.5
SAMPLE IMAGES	met	thod limit/bas	se current	history1	history2
Color			•		
SAMPLE IMAGES					

Bottom



Contact/Location: SERVICE MANAGER - SMITAR