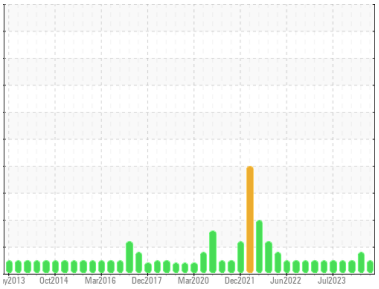
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
SLAUGHTER
Machine Id
SULLAIR TYSAMAS 2 SUL (S/N 007-99000331)
Component
Refrigeration Compressor
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample. Ester measured at approximately 0.5%.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP0003551**	USP0003556	USPM29034
Sample Date		Client Info		**15 Nov 2023**	14 Nov 2023	26 Jul 2023
Machine Age	hrs	Client Info		**12172**	12172	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	ATTENTION	NORMAL

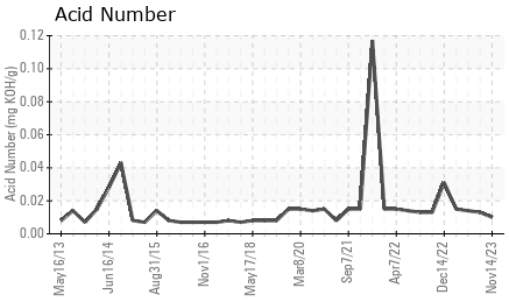
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	**---**	0	---
Chromium	ppm	ASTM D5185m	>2	**---**	0	---
Nickel	ppm	ASTM D5185m		**---**	0	---
Titanium	ppm	ASTM D5185m		**---**	0	---
Silver	ppm	ASTM D5185m	>2	**---**	0	---
Aluminum	ppm	ASTM D5185m	>3	**---**	0	---
Lead	ppm	ASTM D5185m	>2	**---**	0	---
Copper	ppm	ASTM D5185m	>8	**---**	0	---
Tin	ppm	ASTM D5185m	>4	**---**	0	---
Vanadium	ppm	ASTM D5185m		**---**	0	---
Cadmium	ppm	ASTM D5185m		**---**	0	---

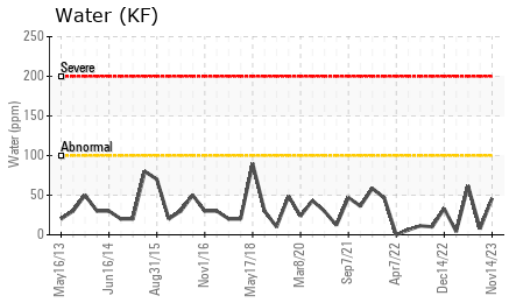
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**---**	0	---
Barium	ppm	ASTM D5185m		**---**	0	---
Molybdenum	ppm	ASTM D5185m		**---**	0	---
Manganese	ppm	ASTM D5185m		**---**	<1	---
Magnesium	ppm	ASTM D5185m		**---**	0	---
Calcium	ppm	ASTM D5185m		**---**	1	---
Phosphorus	ppm	ASTM D5185m		**---**	0	---
Zinc	ppm	ASTM D5185m		**---**	0	---
Sulfur	ppm	ASTM D5185m		**---**	0	---

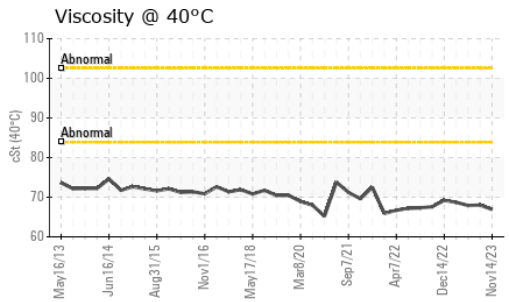
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**---**	0	---
Sodium	ppm	ASTM D5185m		**---**	0	---
Potassium	ppm	ASTM D5185m	>20	**---**	0	---
Water	%	ASTM D6304	>0.01	**NEG**	0.004	NEG
ppm Water	ppm	ASTM D6304	>100	**---**	46	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	---	0.1
Nitration	Abs/cm	*ASTM D7624		**2.2**	---	2.6
Sulfation	Abs/.1mm	*ASTM D7415		**13.6**	---	14.0

OIL ANALYSIS REPORT







FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	---	▲ 10476	---
Particles >6µm		ASTM D7647	>2500	---	2004	---
Particles >14µm		ASTM D7647	>320	---	34	---
Particles >21µm		ASTM D7647	>80	---	5	---
Particles >38µm		ASTM D7647	>20	---	0	---
Particles >71µm		ASTM D7647	>4	---	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	---	▲ 21/18/12	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**5.2**	---	5.9
Acid Number (AN)	mg KOH/g	ASTM D974		---	0.01	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	---	NONE	---
Yellow Metal	scalar	*Visual	NONE	---	NONE	---
Precipitate	scalar	*Visual	NONE	---	NONE	---
Silt	scalar	*Visual	NONE	---	NONE	---
Debris	scalar	*Visual	NONE	---	NONE	---
Sand/Dirt	scalar	*Visual	NONE	---	NONE	---
Appearance	scalar	*Visual	NORML	---	NORML	---
Odor	scalar	*Visual	NORML	---	NORML	---
Emulsified Water	scalar	*Visual	>0.01	---	NEG	---
Free Water	scalar	*Visual		---	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		---	66.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0003551 **Received** : 22 Nov 2023
Lab Number : 06015569 **Diagnosed** : 27 Nov 2023
Unique Number : 10754713 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: FT-IR)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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