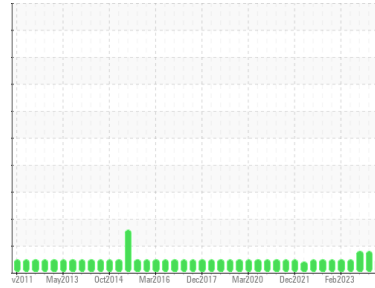




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
SLAUGHTER
 Machine Id
FES TYSAMAS 7 FES (S/N K523/NB)
 Component
Refrigeration Compressor
 Fluid
USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline FTIR on the submitted sample.
 Ester content estimated at 1.0%.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			USP0003548	USP0003554	USP0001045
Sample Date	Client Info			15 Nov 2023	14 Nov 2023	21 Jul 2023
Machine Age	hrs	Client Info		11754	11754	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	---	11	13
Chromium	ppm	ASTM D5185m	>2	---	<1	<1
Nickel	ppm	ASTM D5185m		---	0	6
Titanium	ppm	ASTM D5185m		---	0	0
Silver	ppm	ASTM D5185m	>2	---	0	0
Aluminum	ppm	ASTM D5185m	>3	---	1	0
Lead	ppm	ASTM D5185m	>2	---	0	<1
Copper	ppm	ASTM D5185m	>8	---	<1	<1
Tin	ppm	ASTM D5185m	>4	---	0	0
Vanadium	ppm	ASTM D5185m		---	0	0
Cadmium	ppm	ASTM D5185m		---	0	0

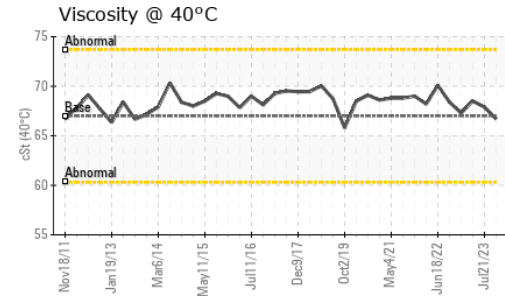
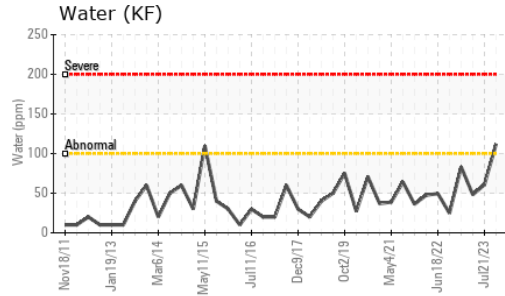
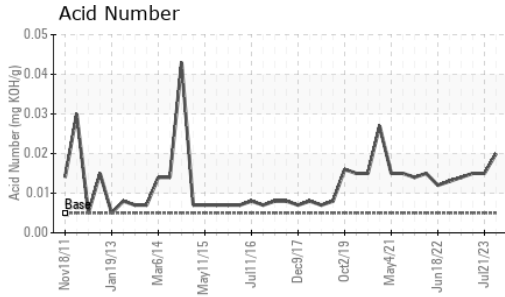
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		---	0	0
Barium	ppm	ASTM D5185m		---	0	0
Molybdenum	ppm	ASTM D5185m		---	0	0
Manganese	ppm	ASTM D5185m		---	0	0
Magnesium	ppm	ASTM D5185m		---	<1	<1
Calcium	ppm	ASTM D5185m		---	2	2
Phosphorus	ppm	ASTM D5185m		---	0	0
Zinc	ppm	ASTM D5185m		---	0	0
Sulfur	ppm	ASTM D5185m	50	---	11	29

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	---	1	1
Sodium	ppm	ASTM D5185m		---	0	0
Potassium	ppm	ASTM D5185m	>20	---	<1	<1
Water	%	ASTM D6304	>0.01	NEG	0.011	0.006
ppm Water	ppm	ASTM D6304	>100	---	112	60.7

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	---	---
Nitration	Abs/cm	*ASTM D7624		2.4	---	---
Sulfation	Abs/.1mm	*ASTM D7415		30.4	---	---



OIL ANALYSIS REPORT



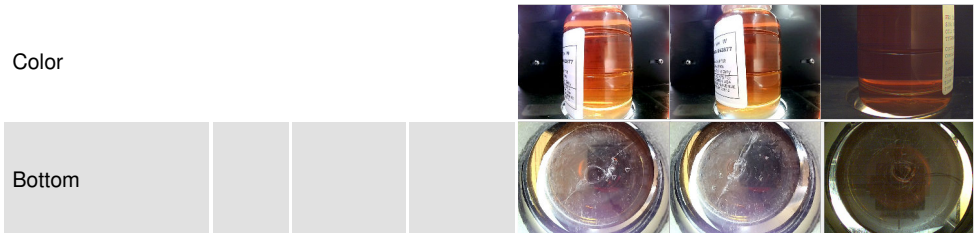
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		---	91107	60559
Particles >6µm	ASTM D7647	>2500	---	▲ 9942	▲ 6678
Particles >14µm	ASTM D7647	>320	---	285	244
Particles >21µm	ASTM D7647	>80	---	52	45
Particles >38µm	ASTM D7647	>20	---	1	0
Particles >71µm	ASTM D7647	>4	---	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/15	---	▲ 24/20/15	▲ 23/20/15

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414		8.9	---	---
Acid Number (AN)	mg KOH/g ASTM D974	0.005	---	0.02	0.015

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	67	---	66.7	67.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0003548 **Received** : 22 Nov 2023
Lab Number : 06015572 **Diagnosed** : 27 Nov 2023
Unique Number : 10754716 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: FT-IR)

TYSON -AMARILLO-USB

AMARILLO, TX
US

Contact: RANDY INGRAM

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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