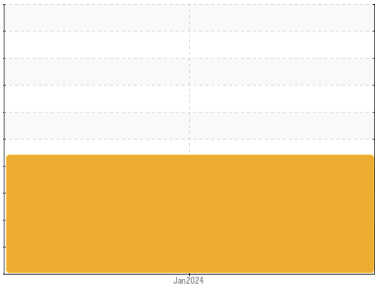
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
TAMEX INC [02621867]
Machine Id
HITACHI ZX210LC-6 1FFDC571JMF340965
Component
Hydraulic System
Fluid
PANOLIN HLP SYNTH 46 (240 LTR)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier la source de l`infiltration d`eau. Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

Contamination

Il y a une quantité modérée de particules (de 4 à 14 microns) dans l`huile. Il y a une faible concentration (<5.0%) d'huile minérale présente dans le fluide. Concentration modérée d`eau dans l`huile. La propreté du système est supérieure à la limite acceptable pour votre objectif de propreté ISO 4406.

Fluid Condition

Le AN est acceptable pour ce fluide. l`huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC**	---	---
Sample Date		Client Info		**03 Jan 2024**	---	---
Machine Age	hrs	Client Info		**1903**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ **108**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**<1**	---	---
Nickel	ppm	ASTM D5185(m)	>10	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**<1**	---	---
Silver	ppm	ASTM D5185(m)		**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>10	**<1**	---	---
Lead	ppm	ASTM D5185(m)	>10	**<1**	---	---
Copper	ppm	ASTM D5185(m)	>75	**2**	---	---
Tin	ppm	ASTM D5185(m)	>10	**<1**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

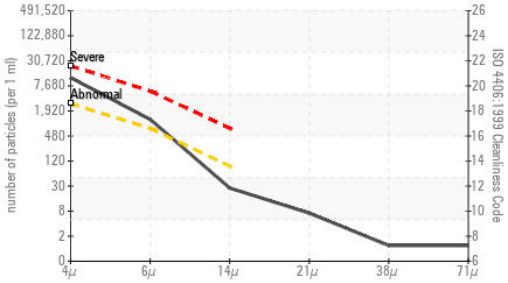
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**2**	---	---
Barium	ppm	ASTM D5185(m)	0	**2**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	---	---
Manganese	ppm	ASTM D5185(m)	0	**<1**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**<1**	---	---
Calcium	ppm	ASTM D5185(m)	0	**4**	---	---
Phosphorus	ppm	ASTM D5185(m)	1700	**1438**	---	---
Zinc	ppm	ASTM D5185(m)	0	● **151**	---	---
Sulfur	ppm	ASTM D5185(m)	1350	● **1828**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**8**	---	---
Sodium	ppm	ASTM D5185(m)		**2**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**2**	---	---
Water	%	ASTM D6304*	>0.05	▲ **0.076**	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ **763**	---	---

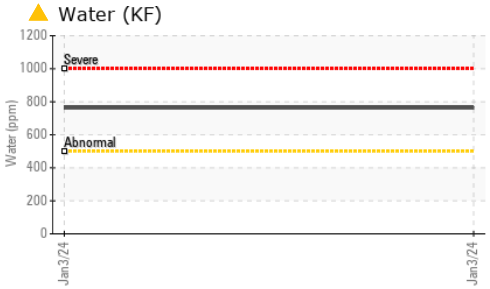
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	---	---
Nitration	Abs/cm	ASTM D7624*		**5.0**	---	---
Sulfation	Abs/.1mm	ASTM D7415*		**151.3**	---	---
Mineral Oil Content	%	ASTM D7418*	<5.0%	**<5.0**	---	---

OIL ANALYSIS REPORT

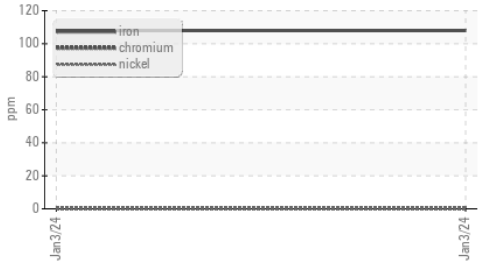
Particle Count



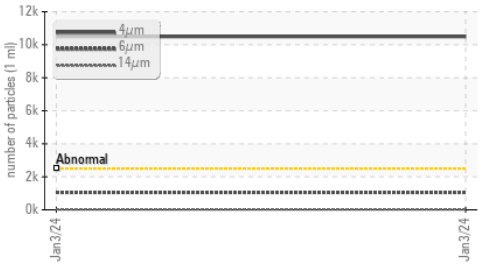
Water (KF)



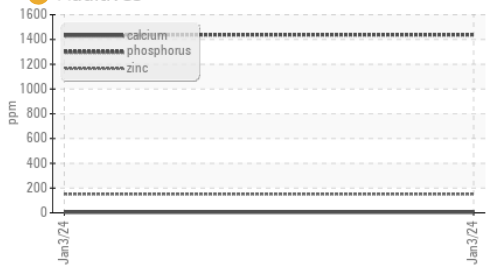
Ferrous Alloys



Particle Trend



Additives



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **10494**	---	---
Particles >6µm		ASTM D7647	>640	● **1055**	---	---
Particles >14µm		ASTM D7647	>80	**24**	---	---
Particles >21µm		ASTM D7647	>20	**6**	---	---
Particles >38µm		ASTM D7647	>4	**1**	---	---
Particles >71µm		ASTM D7647	>3	**1**	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **21/17/12**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**156.9**	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		**1.67**	---	---

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*	>0.05	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.0	**46.0**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.1	**8.5**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	146	**164**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02621865
Unique Number : 5746984
Test Package : MOB 2 (Additional Tests: PQ, TAN Man)
Received : 13 Mar 2024
Tested : 14 Mar 2024
Diagnosed : 14 Mar 2024 - Bill Quesnel

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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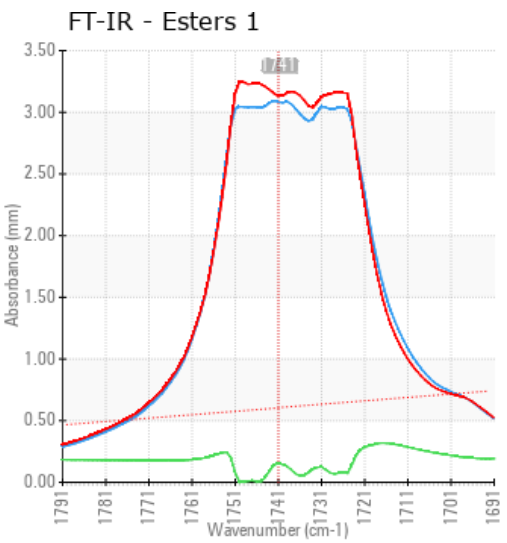
MINERAL OIL CONTENT REPORT

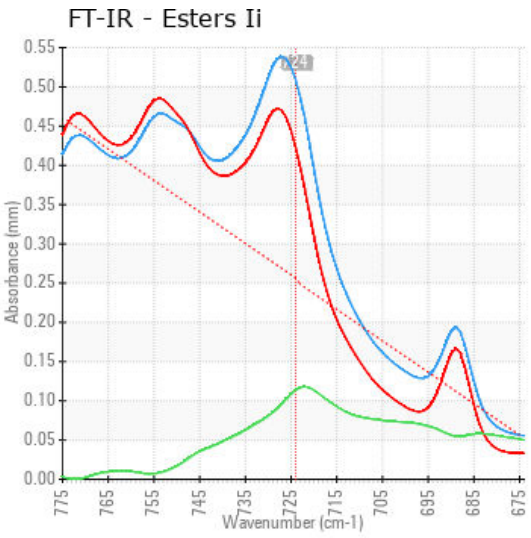
PASS

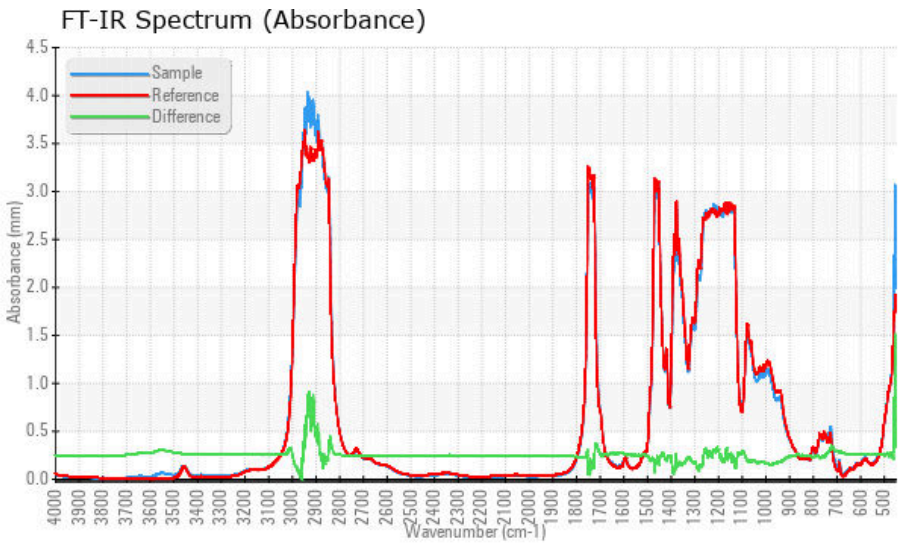
Area
TAMEX INC [02621867]
Machine Id
HITACHI ZX210LC-6 1FFDC571JMF340965
Component
Hydraulic System
Fluid
PANOLIN HLP SYNTH 46 (240 LTR)

SPECTRAL ANALYSIS

		method	limit/base	current	history1	history2
Zinc	ppm	ASTM D5185(m)	0	**151**	---	---
Mineral Oil Content	%	ASTM D7418*	<5.0%	**<5.0**	---	---







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