



OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
LOISELLE INC [E13092022J]
 Machine Id
HITACHI ZX345USLC-6 P101 (S/N HCMDD560C00010142)
 Component
Reference New (Unused) Oil
 Fluid
PANOLIN HLP SYNTH 46 (330 LTR)



DIAGNOSIS

Recommendation

Il s'agit du relevé de base de cette huile neuve (inutilisée). Le fluide peut servir. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. **NOTER:** Des nouvelles huiles ne sont pas généralement filtrées ni garanties conformes à un code spécifique de propreté. Nous vous conseillons de vérifier le code cible de propreté pour votre application et vous recommandons de vous servir d'un dispositif portable de filtrage lors du remplissage de tout système avec un code de propreté inférieur au code de propreté ISO de ce produit.

Wear

(sans objet)

Contamination

Il y a une quantité modérée de particules (de 4 à 14 microns) 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'état de l'huile permet d'en l'utilisation. 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	12 Dec 2023	---	---
Machine Age	hrs Client Info	6064	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)		29	---	---
Chromium ppm ASTM D5185(m)		<1	---	---
Nickel ppm ASTM D5185(m)		<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		<1	---	---
Aluminum ppm ASTM D5185(m)		<1	---	---
Lead ppm ASTM D5185(m)		<1	---	---
Copper ppm ASTM D5185(m)		2	---	---
Tin ppm ASTM D5185(m)		0	---	---
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	4	---	---
Barium ppm ASTM D5185(m)	0	<1	---	---
Molybdenum ppm ASTM D5185(m)	0	0	---	---
Manganese ppm ASTM D5185(m)	0	0	---	---
Magnesium ppm ASTM D5185(m)	0	0	---	---
Calcium ppm ASTM D5185(m)	0	1	---	---
Phosphorus ppm ASTM D5185(m)	1700	1431	---	---
Zinc ppm ASTM D5185(m)	0	66	---	---
Sulfur ppm ASTM D5185(m)	1350	1330	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

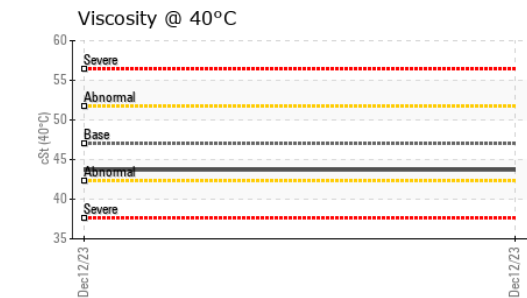
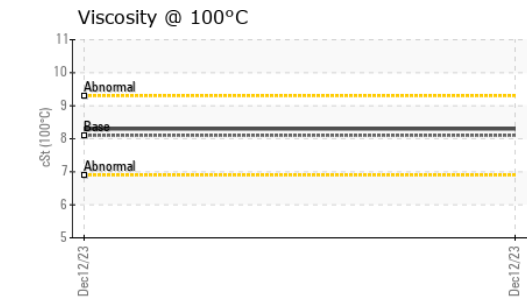
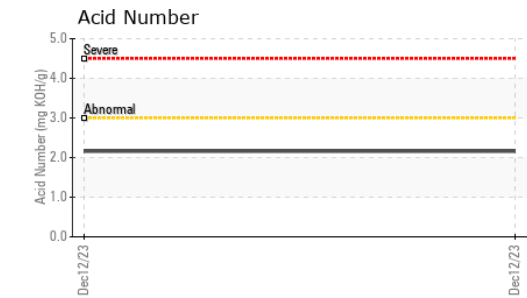
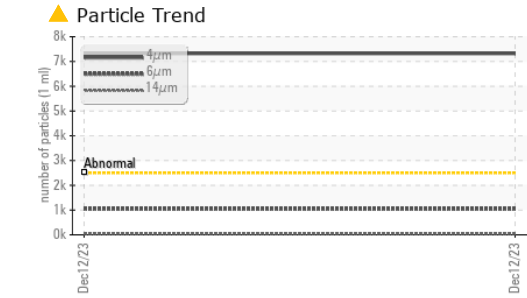
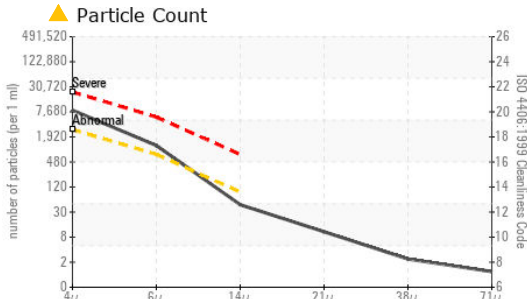
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)		1	---	---
Sodium ppm ASTM D5185(m)		3	---	---
Potassium ppm ASTM D5185(m)	>20	6	---	---
Water % ASTM D6304*	>0.05	0.053	---	---
ppm Water ppm ASTM D6304*	>500	535	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot % ASTM D7844*		0	---	---
Nitration Abs/cm ASTM D7624*		4.6	---	---
Sulfation Abs/.1mm ASTM D7415*		158.5	---	---



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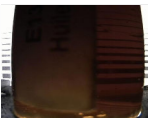



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 7323	---	---
Particles >6µm	ASTM D7647	>640	▲ 1049	---	---
Particles >14µm	ASTM D7647	>80	40	---	---
Particles >21µm	ASTM D7647	>20	9	---	---
Particles >38µm	ASTM D7647	>4	2	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/17/12	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	158.7	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	2.16	---	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.0	43.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.1	8.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	146	168	---

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : **02602956**
Unique Number : 5696041
Test Package : MOB 2 (Additional Tests: ICP-NewOil, TAN Man)

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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