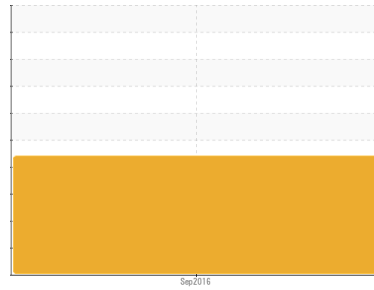




PROBLEM SUMMARY

Sample Rating Trend

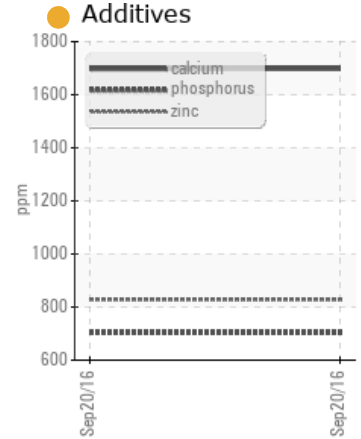
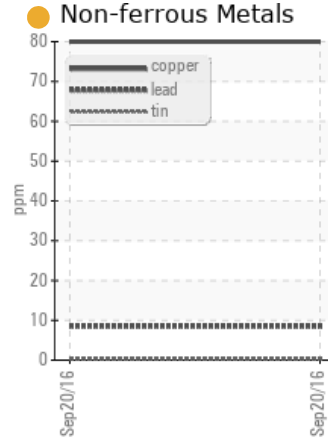
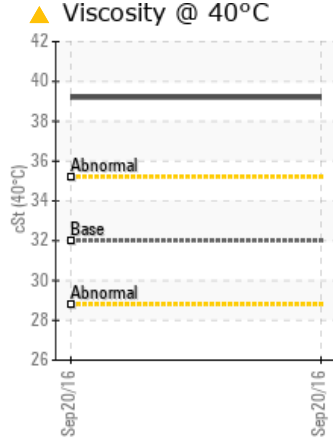
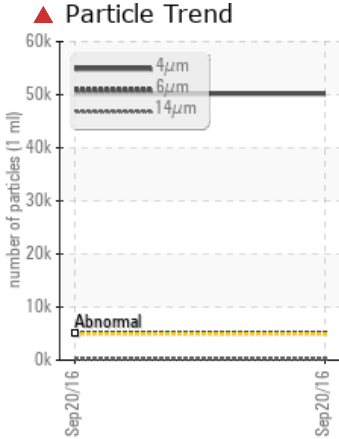


WEAR



Area
Garage
 Machine Id
3146
 Component
Hydraulic System
 Fluid
ESSO UNIVIS N 32 (50 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Vérifier les scelles et/ou les filters pour des points d'entrée des contaminants. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Nous recommandons le remplacement des filtres de ce composant. Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	▲	50180	---	---
Particles >6µm	ASTM D7647	>1300	▲	5115	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲	23/20/15	---	---
Visc @ 40°C	cSt ASTM D7279(m)	32	▲	39.2	---	---

Customer Id: ALCBAI
 Sample No.: WC22121611
 Lab Number: 02101023
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

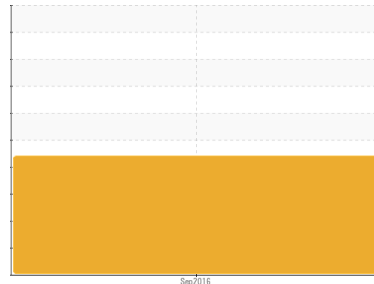
Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

Garage

Machine Id

3146

Component

Hydraulic System

Fluid

ESSO UNIVIS N 32 (50 LTR)

DIAGNOSIS

Recommendation

Vérifier les scelles et/ou les filters pour des points d'entrée des contaminants. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Nous recommandons le remplacement des filtres de ce composant. Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

Wear

Le taux de cuivre est marginal. Les taux d'usure de tous les autres composants sont normaux.

Contamination

Il y a une grande quantité de limon (particules de 4 à 14 microns) dans l'huile. La teneur en eau est négligeable.

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'ISO 46; nous vous conseillons de vérifier. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. 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		WC22121611	---	---
Sample Date	Client Info		20 Sep 2016	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	12	---
Chromium	ppm	ASTM D5185(m)	>20	0	---
Nickel	ppm	ASTM D5185(m)	>20	0	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)		0	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	---
Lead	ppm	ASTM D5185(m)	>20	8	---
Copper	ppm	ASTM D5185(m)	>20	80	---
Tin	ppm	ASTM D5185(m)	>20	<1	---
Antimony	ppm	ASTM D5185(m)		1	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	.1	<1	---
Barium	ppm	ASTM D5185(m)		<1	---
Molybdenum	ppm	ASTM D5185(m)	.3	<1	---
Manganese	ppm	ASTM D5185(m)		<1	---
Magnesium	ppm	ASTM D5185(m)	0	4	---
Calcium	ppm	ASTM D5185(m)	74	1698	---
Phosphorus	ppm	ASTM D5185(m)	266	703	---
Zinc	ppm	ASTM D5185(m)	338	828	---
Sulfur	ppm	ASTM D5185(m)		2774	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

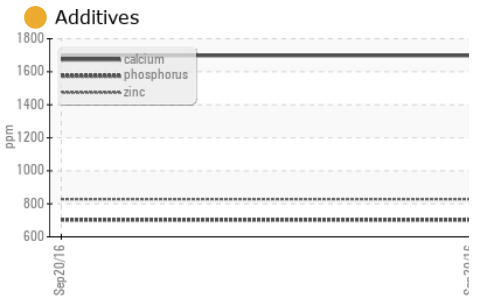
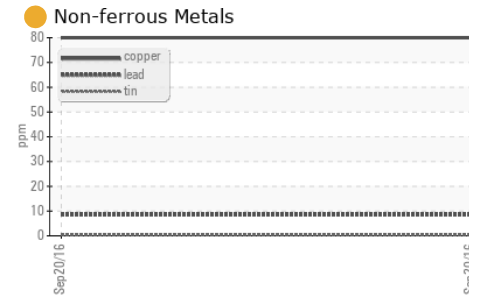
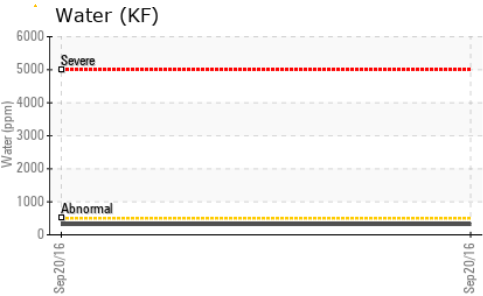
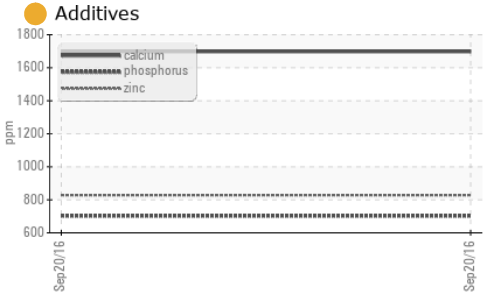
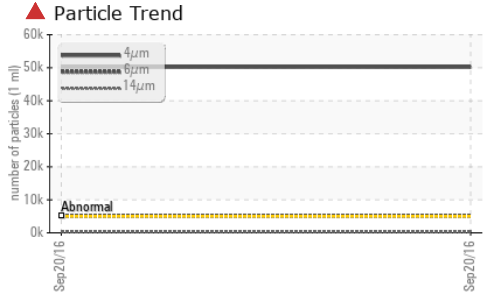
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	5	---
Sodium	ppm	ASTM D5185(m)		14	---
Potassium	ppm	ASTM D5185(m)	>20	16	---
Water	%	ASTM D6304*	>0.05	0.031	---
ppm Water	ppm	ASTM D6304*	>500	319.4	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	50180	---	---
Particles >6µm	ASTM D7647	>1300	5115	---	---
Particles >14µm	ASTM D7647	>160	257	---	---
Particles >21µm	ASTM D7647	>40	55	---	---
Particles >38µm	ASTM D7647	>10	3	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/20/15	---	---



OIL ANALYSIS REPORT



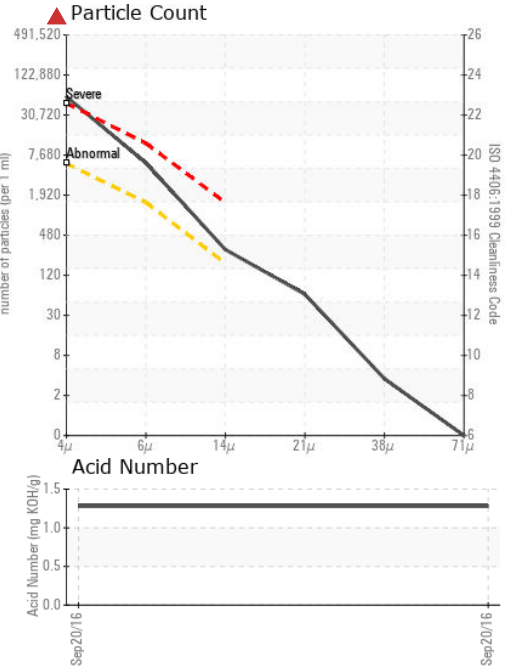
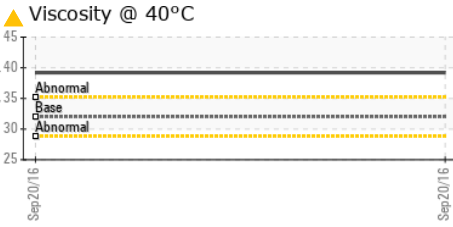
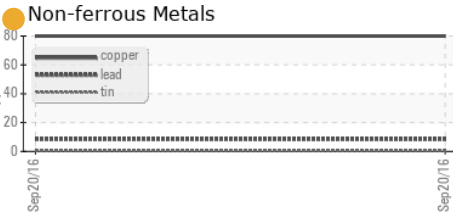
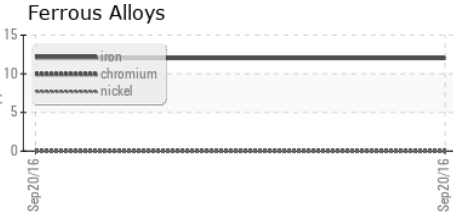
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		1.28	---	---

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)	32	▲ 39.2	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC22121611 **Received** : 29 Sep 2016
Lab Number : 02101023 **Tested** : 03 Oct 2016
Unique Number : 4391369 **Diagnosed** : 04 Oct 2016 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF, 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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