



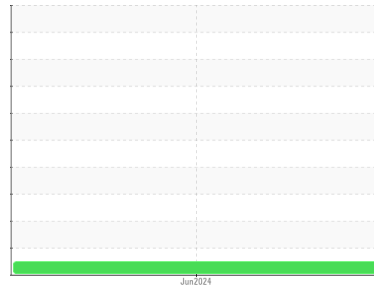
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
UNASSIGNED [02643291]
 Machine Id
LIEBHERR R945 LIEBHERRR945
 Component
Hydraulic System
 Fluid
{not provided} (--- GAL)



DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Veuillez préciser la marque, le type et la viscosité de l'huile lors de votre prochain échantillon.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il n'y a pas d'huile minérale présente dans le fluide. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 75W80; nous vous conseillons de vérifier. Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PP	---	---
Sample Date	Client Info		19 Jun 2024	---	---
Machine Age	hrs Client Info		636	---	---
Oil Age	hrs Client Info		1	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	>50	<1	---	---
Chromium	ppm ASTM D5185(m)	>15	0	---	---
Nickel	ppm ASTM D5185(m)	>5	<1	---	---
Titanium	ppm ASTM D5185(m)		<1	---	---
Silver	ppm ASTM D5185(m)		<1	---	---
Aluminum	ppm ASTM D5185(m)	>8	<1	---	---
Lead	ppm ASTM D5185(m)	>5	0	---	---
Copper	ppm ASTM D5185(m)	>15	<1	---	---
Tin	ppm ASTM D5185(m)	>5	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)		2	---	---
Barium	ppm ASTM D5185(m)		0	---	---
Molybdenum	ppm ASTM D5185(m)		0	---	---
Manganese	ppm ASTM D5185(m)		0	---	---
Magnesium	ppm ASTM D5185(m)		<1	---	---
Calcium	ppm ASTM D5185(m)		97	---	---
Phosphorus	ppm ASTM D5185(m)		1244	---	---
Zinc	ppm ASTM D5185(m)		52	---	---
Sulfur	ppm ASTM D5185(m)		2507	---	---
Lithium	ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>25	3	---	---
Sodium	ppm ASTM D5185(m)		<1	---	---
Potassium	ppm ASTM D5185(m)	>20	<1	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% ASTM D7844*		0	---	---
Nitration	Abs/cm ASTM D7624*		4.2	---	---
Sulfation	Abs/.1mm ASTM D7415*		158.4	---	---
Mineral Oil Content	% ASTM D7418*	<5.0%	0.0	---	---



MINERAL OIL CONTENT REPORT

PASS

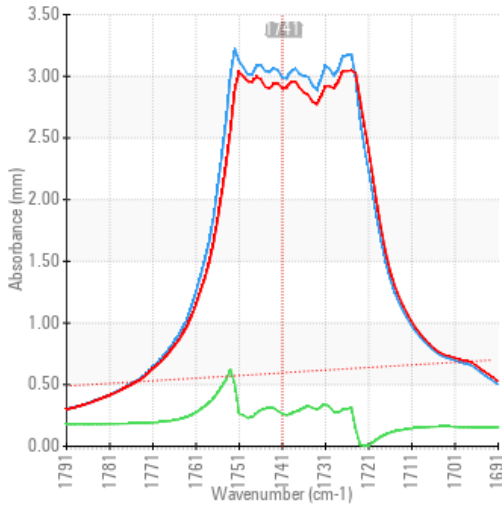


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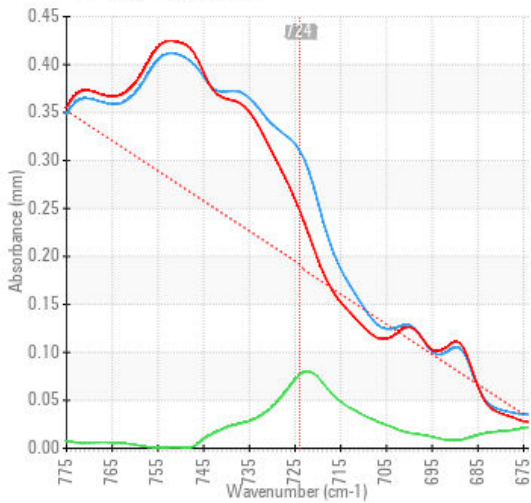
SPECTRAL ANALYSIS

		method	limit/base	current	history1	history2
Zinc	ppm	ASTM D5185(m)		52	---	---
Mineral Oil Content	%	ASTM D7418*	<5.0%	0.0	---	---

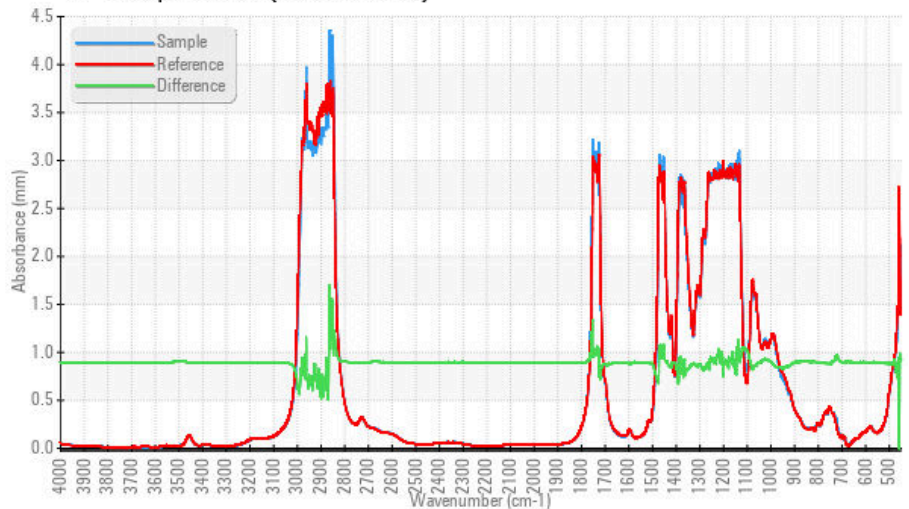
FT-IR - Esters I



FT-IR - Esters II



FT-IR Spectrum (Absorbance)



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP
Lab Number : 02643292
Unique Number : 5800831
Test Package : MOB 2 (Additional Tests: FT-IR, KV100, Mineral Oil Content, TAN Auto, TAN Man, VI)

Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 24 Jun 2024 - Bill Quesnel

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 CA G5Y 8E3
 Contact: Jimmie Roy
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 T: (418)227-6442
 F: (418)228-5592

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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