



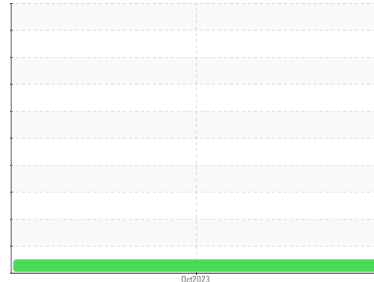
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[E27042023G]
 Machine Id
CATERPILLAR 345DL PM21-005 (S/N CAT0345PVFFH00791)
 Component
Reference New (Unused) Oil
 Fluid
TOTAL BIOHYDRAN SE 46 (300 LTR)



DIAGNOSIS

Recommendation

Il s'agit du relevé de base de l'échantillon soumis.

Wear

{sans objet}

Contamination

{sans objet}

Fluid Condition

{sans objet}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC	---	---
Sample Date	Client Info		22 Oct 2023	---	---
Machine Age	hrs Client Info		11150	---	---
Oil Age	hrs Client Info		0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)		0	---	---
Chromium	ppm ASTM D5185(m)		0	---	---
Nickel	ppm ASTM D5185(m)		0	---	---
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)		<1	---	---
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)		1	---	---
Barium	ppm ASTM D5185(m)		<1	---	---
Molybdenum	ppm ASTM D5185(m)		0	---	---
Manganese	ppm ASTM D5185(m)		0	---	---
Magnesium	ppm ASTM D5185(m)		0	---	---
Calcium	ppm ASTM D5185(m)		4	---	---
Phosphorus	ppm ASTM D5185(m)		365	---	---
Zinc	ppm ASTM D5185(m)		2	---	---
Sulfur	ppm ASTM D5185(m)		809	---	---
Lithium	ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

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

INFRA-RED

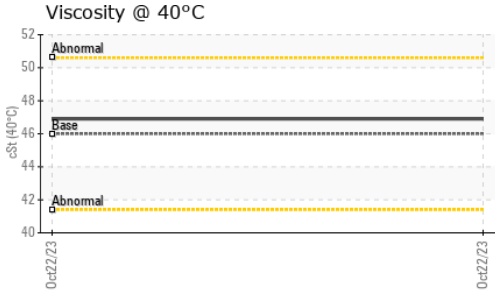
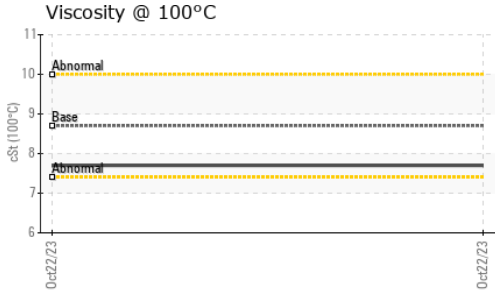
	method	limit/base	current	history1	history2
Soot %	% ASTM D7844*		0	---	---
Nitration	Abs/cm ASTM D7624*		4.1	---	---
Sulfation	Abs/.1mm ASTM D7415*		162.2	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*		183.5	---	---





OIL ANALYSIS REPORT



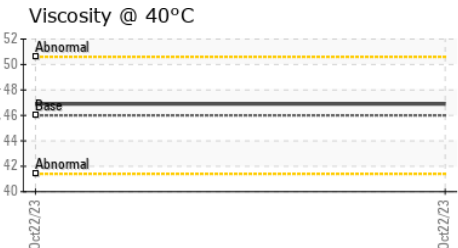
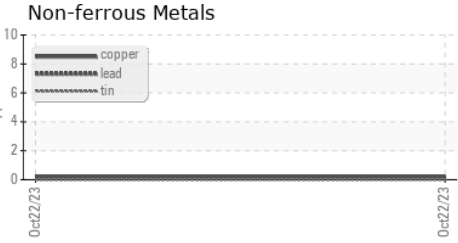
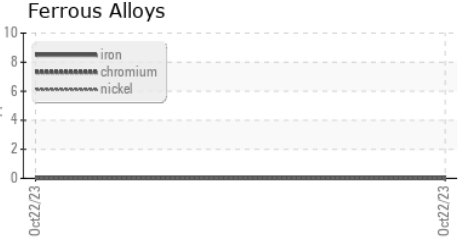
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46	46.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.7	7.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	146	131	---	---

SAMPLE IMAGES

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. : WC **Received** : 23 Oct 2023
Lab Number : **02591214** **Diagnosed** : 25 Oct 2023
Unique Number : 5668293 **Diagnostician** : Bill Quesnel
Test Package : TEST (Additional Tests: ICP-NewOil)

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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.