

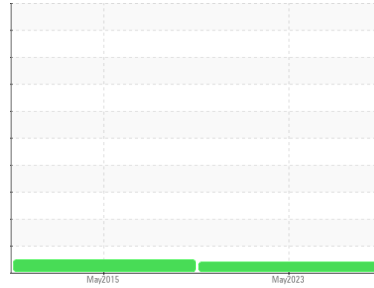


OIL ANALYSIS REPORT



Area
BELL
Machine Id
CATERPILLAR 6HN000912
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Sample Rating Trend



VISCOSITY



DIAGNOSIS

Recommendation

Aucune mesure corrective n'est recommandée pour l'instant. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

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

Contamination

Légère dilution de carburant dans l'huile. Aucun autre contaminant n'a été détecté dans l'huile.

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 30; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		GD0005488	GD0001535	---
Sample Date	Client Info		15 May 2023	27 May 2015	---
Machine Age	hrs	Client Info	1112	569	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history 1	history 2
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m) >100	3	2	---
Chromium	ppm	ASTM D5185(m) >20	0	0	---
Nickel	ppm	ASTM D5185(m) >2	<1	0	---
Titanium	ppm	ASTM D5185(m) >2	<1	<1	---
Silver	ppm	ASTM D5185(m) >2	<1	0	---
Aluminum	ppm	ASTM D5185(m) >25	<1	2	---
Lead	ppm	ASTM D5185(m) >40	1	1	---
Copper	ppm	ASTM D5185(m) >330	5	5	---
Tin	ppm	ASTM D5185(m) >15	<1	<1	---
Antimony	ppm	ASTM D5185(m)	0	2	---
Vanadium	ppm	ASTM D5185(m)	0	<1	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	<1	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m) 250	61	3	---
Barium	ppm	ASTM D5185(m) 10	0	0	---
Molybdenum	ppm	ASTM D5185(m) 100	40	39	---
Manganese	ppm	ASTM D5185(m)	<1	<1	---
Magnesium	ppm	ASTM D5185(m) 450	513	766	---
Calcium	ppm	ASTM D5185(m) 3000	1859	1161	---
Phosphorus	ppm	ASTM D5185(m) 1150	983	1058	---
Zinc	ppm	ASTM D5185(m) 1350	1068	1195	---
Sulfur	ppm	ASTM D5185(m) 4250	2506	3048	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m) >25	4	3	---
Sodium	ppm	ASTM D5185(m) >158	2	4	---
Potassium	ppm	ASTM D5185(m) >20	0	0	---
Fuel	%	ASTM D7593* >6	1.4	<1.0	---

INFRA-RED

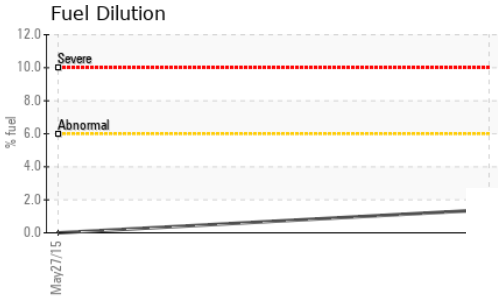
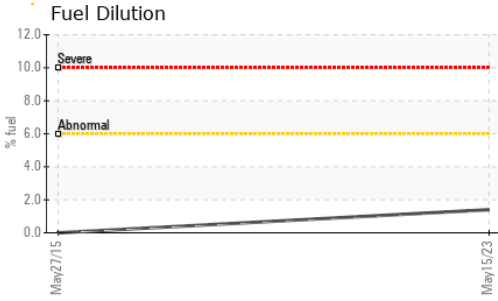
	method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844* >3	0	0	---
Nitration	Abs/cm	ASTM D7624* >20	6.1	6.5	---
Sulfation	Abs/.1mm	ASTM D7415* >30	22.6	16.4	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	ASTM D7414* >25	20.3	12.7	---



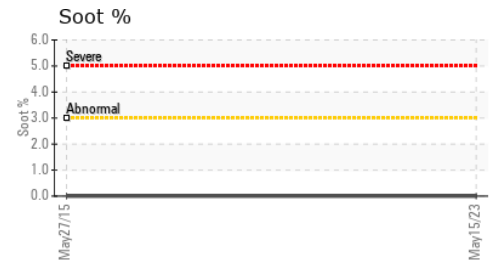
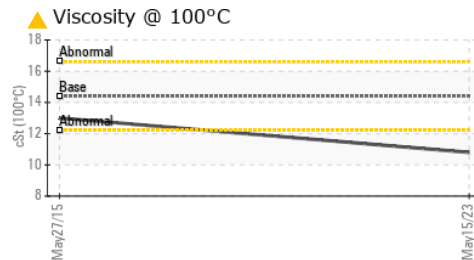
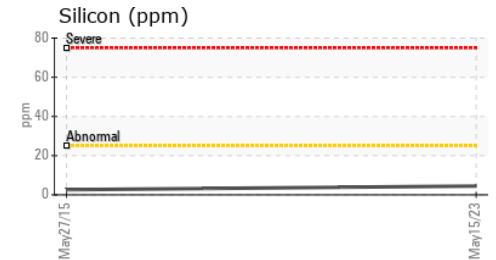
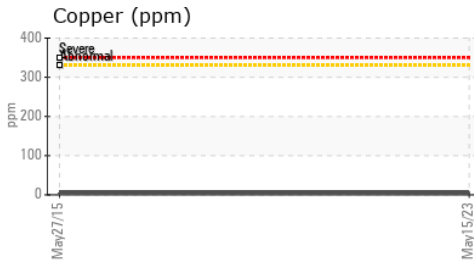
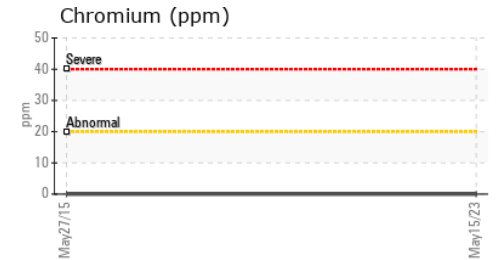
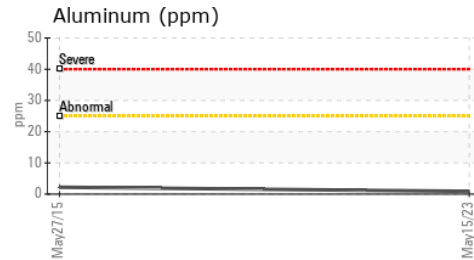
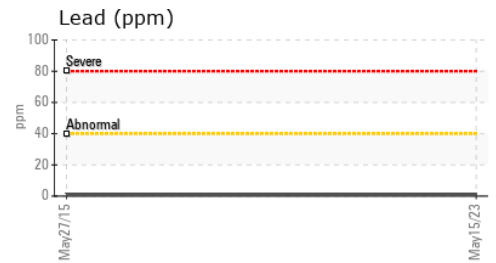
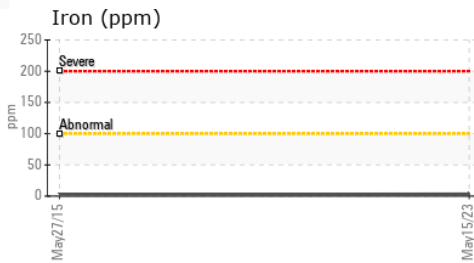
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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*	>0.2	NEG	---
Free Water	scalar	Visual*	NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 10.8	13.0

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GD0005488 **Received** : 02 Jun 2023
Lab Number : 02561338 **Diagnosed** : 05 Jun 2023
Unique Number : 5590379 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

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 Contact: Valerie Poirier
 poiervalerie@generatricedrummond.com

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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