



RAPPORT D'ANALYSE D'HUILE

USURE	NORMAL
CONTAMINATION	NORMAL
ÉTAT DU FLUIDE	NORMAL

Secteur

[103328]

Identité de la machine

PMO (S/N 44437257)

Composant

Moteur diesel

Fluid

VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		CU0021085	CU0019806	CU0017541
Date d'échant.		Client Info		13 Apr 2024	01 Apr 2023	14 May 2022
Âge d la Machine	hrs	Client Info		378	360	342
Âge de l'huile	hrs	Client Info		0	0	0
Âge du filtre	hrs	Client Info		0	0	0
Huile changée		Client Info		Changed	N/A	N/A
Filtre changé		Client Info		Changed	N/A	N/A
Statut de l'échant.				NORMAL	NORMAL	NORMAL

USURE

Metal levels are typical for a new component breaking in.

Fer	ppm	ASTM D5185(m)	>90	3	3	2
Chrome	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titane	ppm	ASTM D5185(m)	>2	0	<1	0
Argent	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminium	ppm	ASTM D5185(m)	>20	1	<1	<1
Plomb	ppm	ASTM D5185(m)	>40	0	0	0
Cuivre	ppm	ASTM D5185(m)	>330	2	<1	<1
Étain	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

There is no indication of any contamination in the oil.

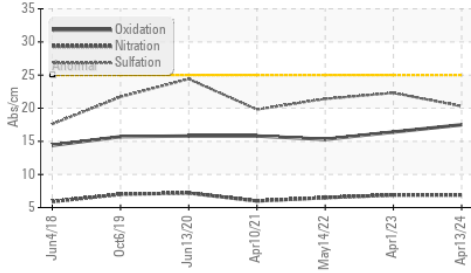
Silicium	ppm	ASTM D5185(m)	>25	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Essence		WC Method	>3.0	<1.0	<1.0	<1.0
L'eau		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
% de suie	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	6.9	6.5
Sulfatation	Abs/.1mm	ASTM D7415*	>30	20.3	22.3	21.4
Eau émulsifiée	scalar	Visual*	>0.2	NEG	NEG	NEG

ÉTAT DU FLUIDE

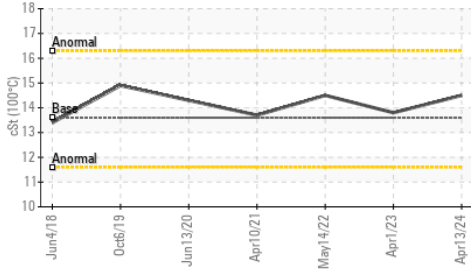
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	3	3
Bore	ppm	ASTM D5185(m)	39	39	42	38
Baryum	ppm	ASTM D5185(m)	1	0	0	0
Molybdène	ppm	ASTM D5185(m)	49	46	45	38
Manganèse	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnésium	ppm	ASTM D5185(m)	616	807	755	655
Calcium	ppm	ASTM D5185(m)	1554	1156	1275	1339
Phosphore	ppm	ASTM D5185(m)	899	682	765	763
Zinc	ppm	ASTM D5185(m)	1069	801	809	840
Soufre	ppm	ASTM D5185(m)	2624	1872	2045	2183
Oxydation	Abs/.1mm	ASTM D7414*	>25	17.5	16.4	15.3
Visc 100°C	cSt	ASTM D7279(m)	13.6	14.5	13.8	14.5

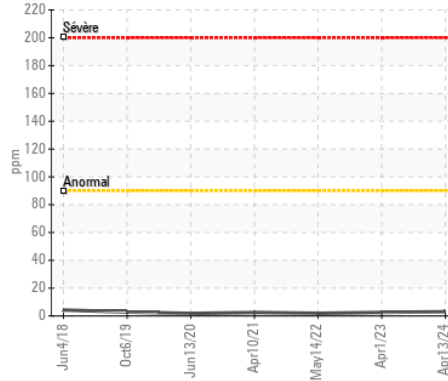
FT-IR (Direct Trend)



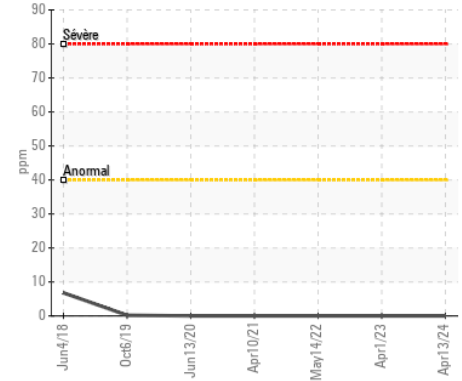
Viscosité 100°C



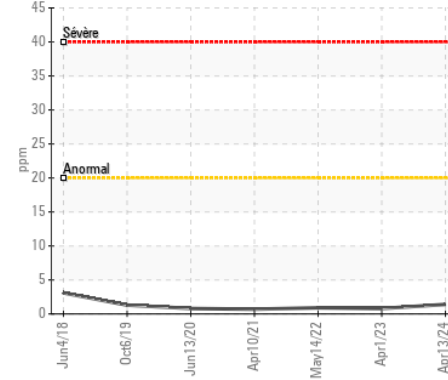
Fer (ppm)



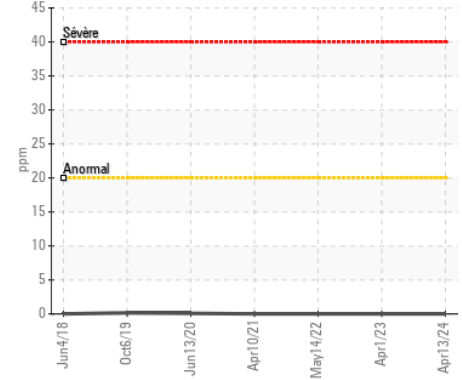
Plomb (ppm)



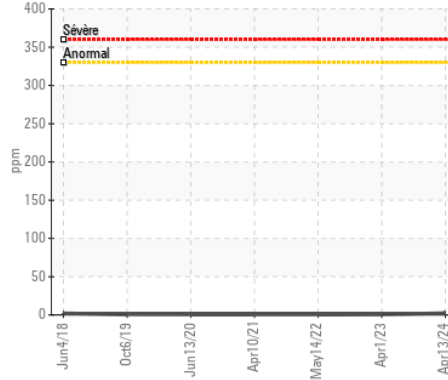
Aluminium (ppm)



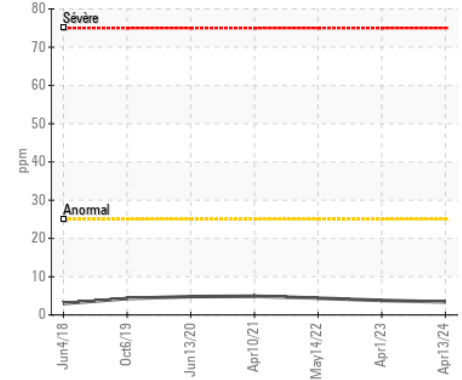
Chrome (ppm)



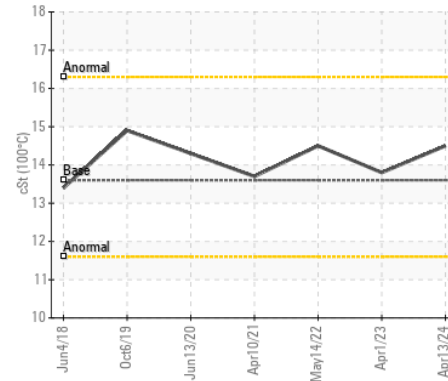
Cuivre (ppm)



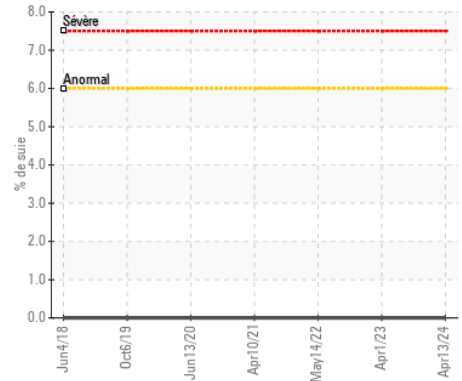
Silicium (ppm)



Viscosité 100°C



% de suie



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

N° d'échantillon : CU0021085

N° de laboratoire : 02629110

Numéro unique : 5762242

Analyse : MOB 1

Reçu : 16 Apr 2024

Tested : 16 Apr 2024

Diagnostiqué : 17 Apr 2024 - Kevin Marson

CUMMINS EASTERN CANADA LP

3189 SWANSEA CRESCENT

OTTAWA, ON

CA K1G 3W5

Contact: Cindy Harrison

cindy.harrison@cummins.com

T: (613)736-1146

F: x:

Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.