



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 379 17-JUMT-01-001M 525783N (S/N 2WS27478)

Component
CATERPILLAR 3406E Front Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (40 LTR) PRODOT : ZP-700 ADDITIF MOTEUR - Cas d'étude #05- b / 2 de 5



RECOMMENDATION

*Texte & Soulignement
en bleu par Adrenalube*

Resample at the next service interval to monitor.

Commentaires :

Current : Age du moteur 1,028,644 km

Ce camion roule en service long courrier (Est USA).

Selon l'historique, un intervalle de 50000 km entre les changements d'huile semble acceptable et sécuritaire.

WEAR

All component wear rates are normal.

History2 : Le cuivre, acceptable mais à surveiller.

NOTE: Il y a eu un service effectué sur le système de refroidissement. C'est ce qui explique la hausse temporaire sur le cuivre.

History 1 & Current : Le cuivre va continuer à baisser.

CONTAMINATION

There is no indication of any contamination in the oil.

Les taux d'usure sont acceptables.

Les concentrations des métaux d'usure sont acceptables.

L'état de l'huile est acceptable.

L'huile approche de sa fin de vie utile pour l'oxydation.

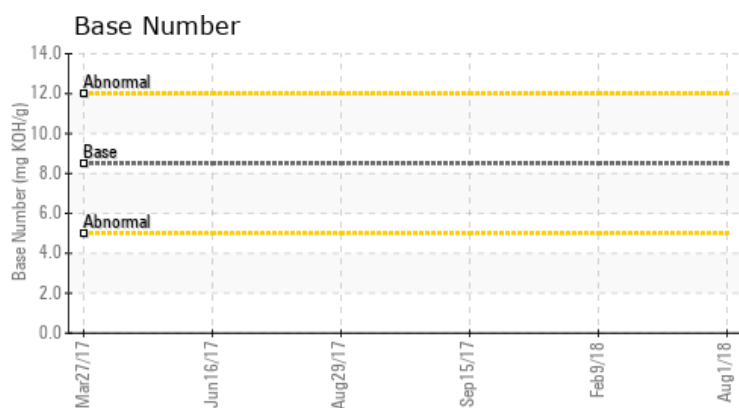
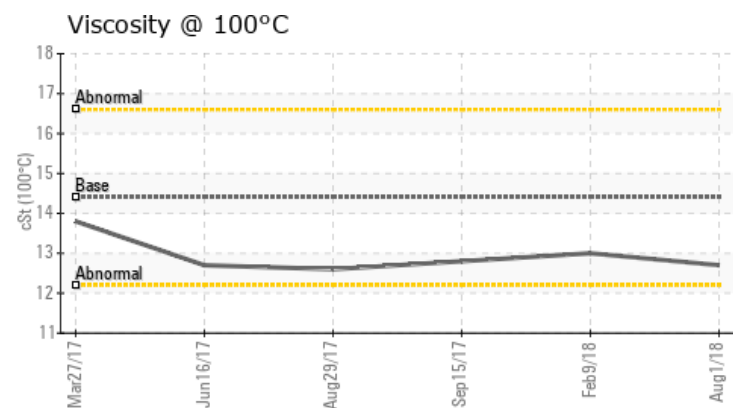
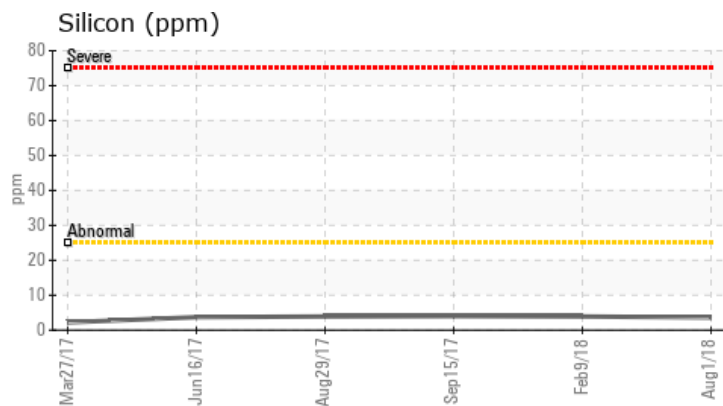
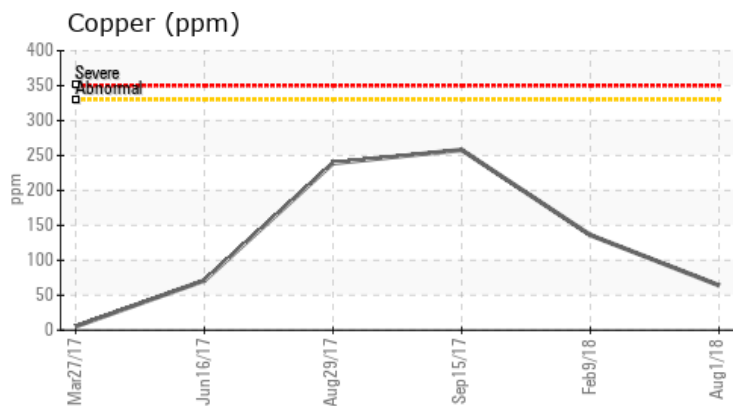
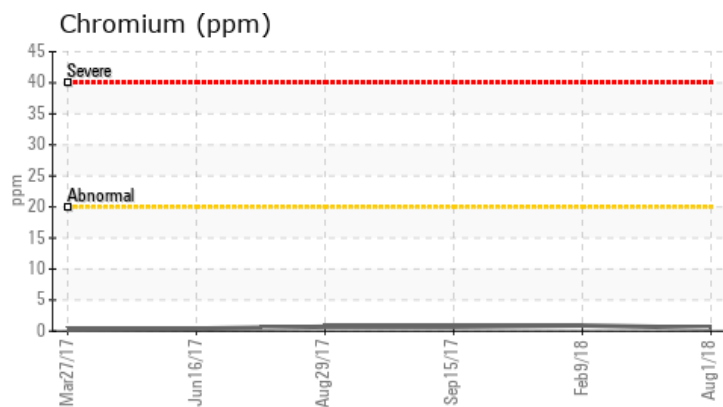
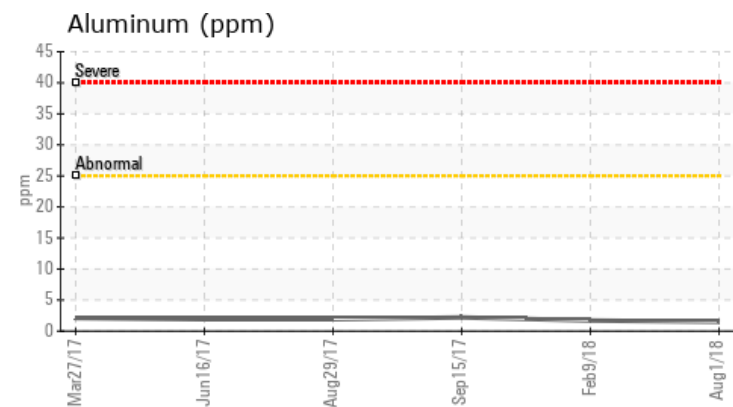
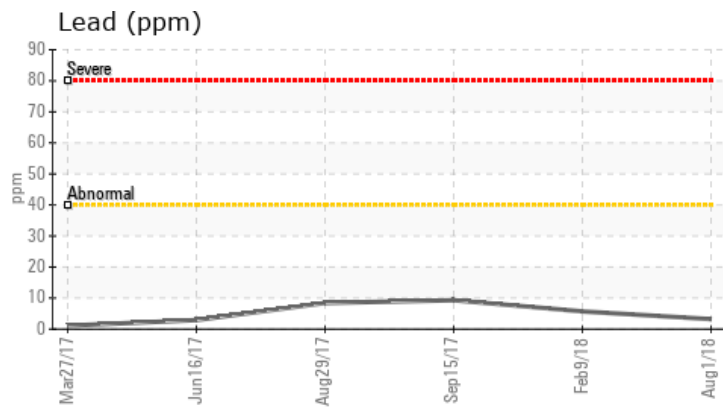
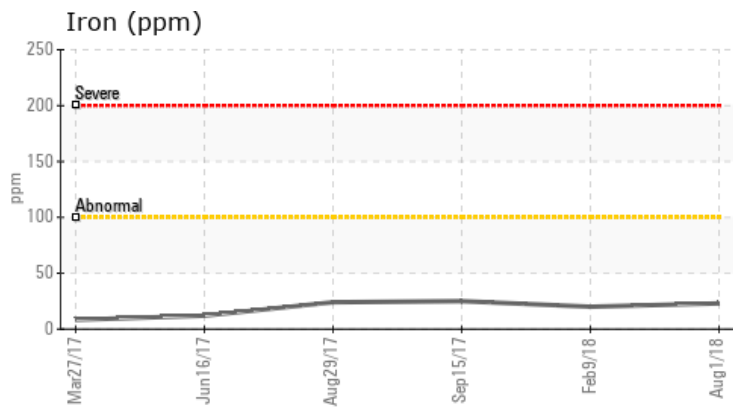
FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Current :

Le résultat BN indique qu'il reste une alcalinité appropriée dans l'huile. L'état de l'huile est adapté pour un service ultérieur.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				PP112685	WC110370	WC103205
Sample Date				01 Aug 2018	09 Feb 2018	15 Sep 2017
Machine Age	kms			3195407	3142700	3101304
Oil Age	kms			48812	41266	53270
Filter Age	kms			48812	41266	53270
Oil Changed				Not Changed	Changed	Changed
Filter Changed				Not Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185	>100	23	20	25
Chromium	ppm	ASTM D5185	>20	0.5	0.9	0.7
Nickel	ppm	ASTM D5185	>2	1.4	2.0	0.7
Titanium	ppm	ASTM D5185	>2	0.2	0.2	0.0
Silver	ppm	ASTM D5185	>2	0.0	0.0	0.0
Aluminum	ppm	ASTM D5185	>25	1.5	1.7	2.2
Lead	ppm	ASTM D5185	>40	3.2	5.7	9.3
Copper	ppm	ASTM D5185	>330	64	136	258
Tin	ppm	ASTM D5185	>15	0.0	0.5	0.6
Vanadium	ppm	ASTM D5185		0.0	0.1	0.0
White Metal	scalar	Visual	NONE	NONE	---	---
Babbitt	scalar	Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185	>25	3.6	3.9	4.0
Potassium	ppm	ASTM D5185	>20	0.4	0.8	0.4
Fuel		ASTM D3524	>5	<1.0	<1.0	<1.0
Glycol		ASTM D2982		NEG	NEG	NEG
Soot %	%	ASTM D7686	>3	0.1	0.1	0.1
Nitration (PA)	%	ASTM D7624	>100	83	84	89
Sulfation (PA)	%	ASTM D7415	>100	69	66	77
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	NEG	NEG
Sodium	ppm	ASTM D5185		6.3	3.2	4.9
Boron	ppm	ASTM D5185	250	24	31	20
Barium	ppm	ASTM D5185	10	0.0	0.0	0.1
Molybdenum	ppm	ASTM D5185	100	77	89	97
Manganese	ppm	ASTM D5185		0.4	0.3	0.4
Magnesium	ppm	ASTM D5185	450	462	488	450
Calcium	ppm	ASTM D5185	3000	1660	1742	1810
Phosphorus	ppm	ASTM D5185	1150	666	690	736
Zinc	ppm	ASTM D5185	1350	832	873	923
Sulfur	ppm	ASTM D5185	4250	1956	1864	1927
Oxidation (PA)	%	ASTM D7414	>100	97	99	92
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.33	---	---
Visc @ 40°C	cSt	ASTM D7279	115	91.9	---	93.4
Visc @ 100°C	cSt	ASTM D7279	14.4	12.7	13.0	12.8
Viscosity Index (VI)	Scale	ASTM D2270	138	134	---	133



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP112685 **Received** : 08 Aug 2018
Lab Number : 02232565 **Diagnosed** : 14 Aug 2018
Unique Number : 4731719 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, VI, Visual)

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 To change component or sample information, contact Customer Service at 1-800-268-2131.