



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
DELVAC 15W40 (40 LTR)



PRODUIT : ZP-700 ADDITIF MOTEUR - Cas d'étude #05- a / 1 de 5

RECOMMENDATION

Texte & Soulignement en bleu par Adrenalube

Resample at the next service interval to monitor.

Commentaires :

History 2 : Machine age / Age du moteur 875243 km
Ce camion roule en service long courrier (Est USA).
Routine des changements d'huile, 20000 km.
History1 vs History2 : Oil age / Age de l'huile .
History2 : 22067 km, sans l'usage de ZP-700. Ajout de 2L / ZP-700 (5%).
Prélever le 2ième échantillon d'huile dans 25000 km.

WEAR

All component wear rates are normal.

NOTE: Durant les premiers traitements, l'effet de nettoyage du ZP-700 favorise une hausse temporaire du niveaux des débris d'usure.

History1 vs History2 : Concentrations des métaux d'usure, hausses dues à l'effet nettoyant du traitement.

Current : Le cuivre, acceptable mais à surveiller.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

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

History 1 : Oil age / Age de l'huile 24197 km
Selon les conditions et résultats obtenus, l'intervalle des changements d'huile peuvent être de 50000 km.

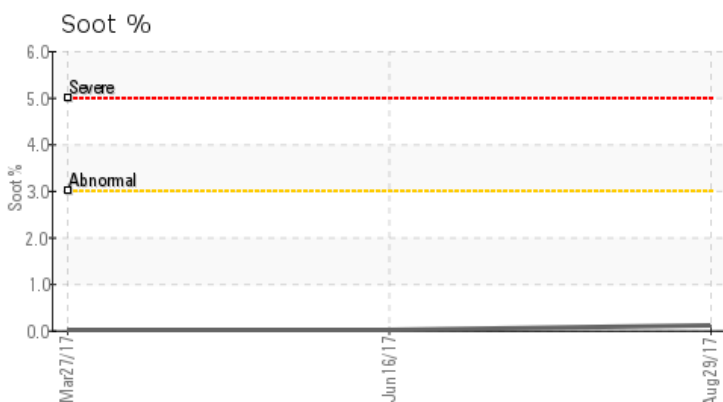
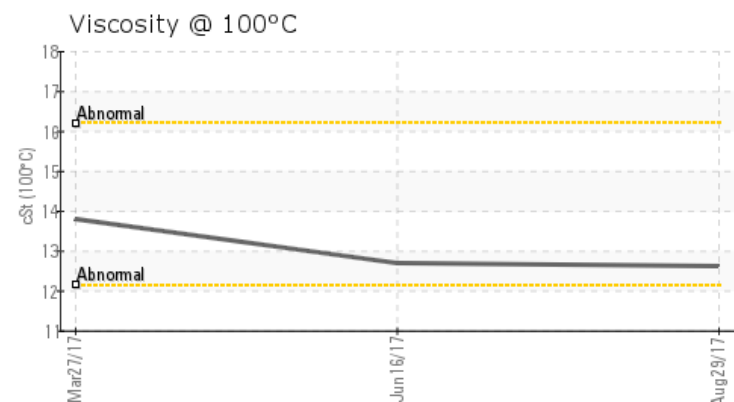
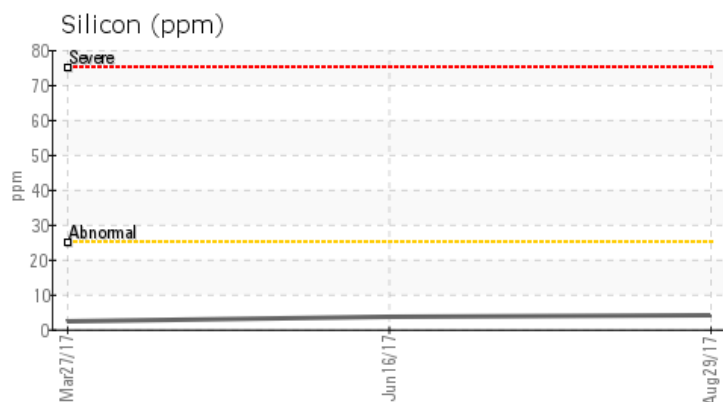
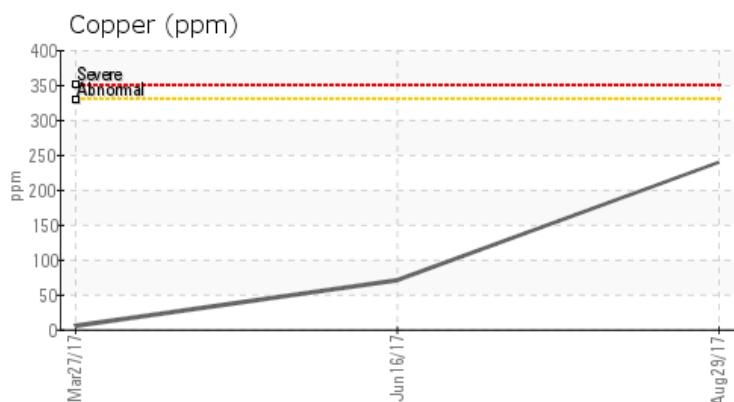
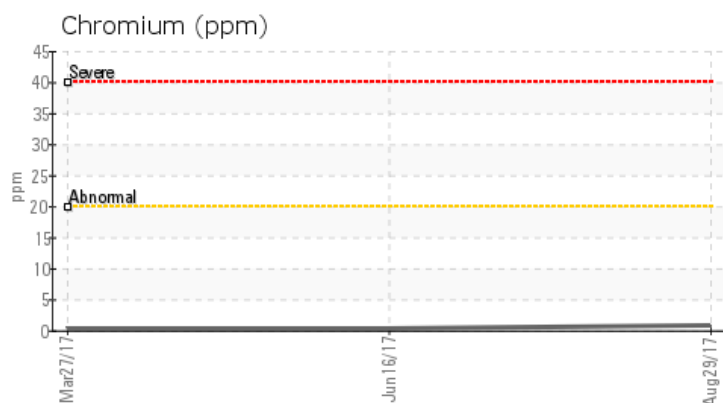
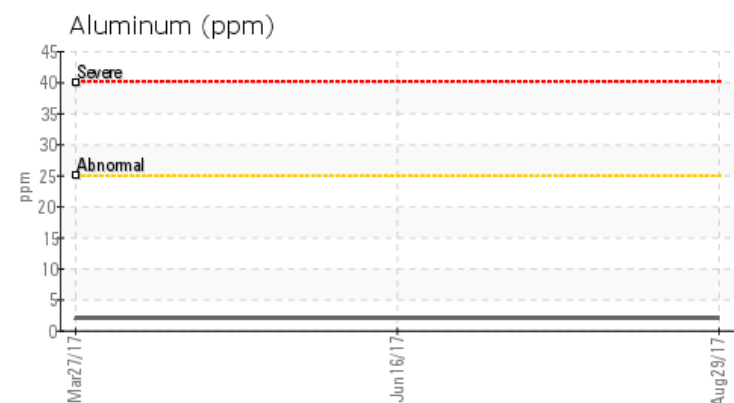
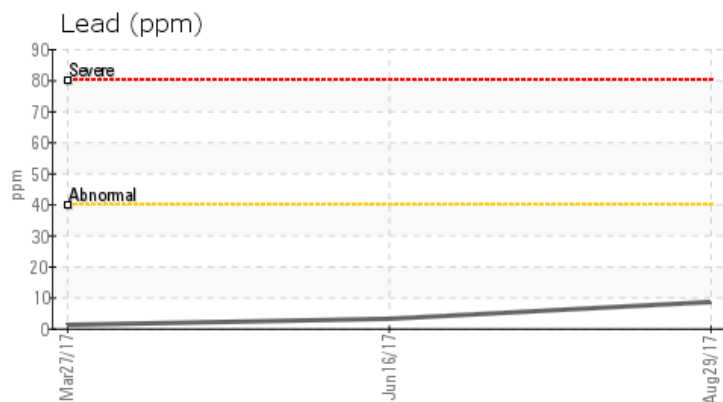
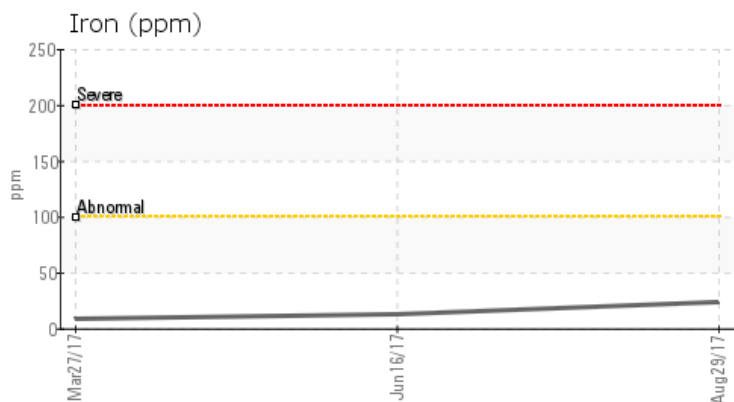
Current vs History 2 : l'indice de viscosité montre une légère amélioration, même si la distance a plus que doublée.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				WC994123	WC990732	WC990725
Sample Date				29 Aug 2017	16 Jun 2017	27 Mar 2017
Machine Age	kms			3096983	3072231	3042006
Oil Age	kms			48949	24197	22067
Filter Age	kms			48949	24197	22067
Oil Changed				Not Changed	Changed	Changed
Filter Changed				Not Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

Iron	ppm	ASTM D5185	>100	24	12	8.3
Chromium	ppm	ASTM D5185	>20	0.7	0.4	0.2
Manganese	ppm	ASTM D5185		0.4	0.3	0.1
Nickel	ppm	ASTM D5185	>2	0.6	0.4	0.8
Titanium	ppm	ASTM D5185	>2	0.0	0.0	0.0
Silver	ppm	ASTM D5185	>2	0.0	0.0	0.0
Aluminum	ppm	ASTM D5185	>25	1.9	1.9	2.1
Lead	ppm	ASTM D5185	>40	8.4	2.9	1.1
Copper	ppm	ASTM D5185	>330	239	71	5.2
Tin	ppm	ASTM D5185	>15	0.6	0.6	0.5
Vanadium	ppm	ASTM D5185		0.0	0.0	0.0

Silicon	ppm	ASTM D5185	>25	3.9	3.7	2.2
Potassium	ppm	ASTM D5185	>20	0.7	0.5	0.1
Soot %	%	ASTM D7686	>3	0.1	0	0
Nitration (PA)	%	ASTM D7624	>100	92	79	68
Sulfation (PA)	%	ASTM D7415	>100	78	72	66
Emulsified Water	scalar	Visual	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185		4.2	3.9	3.2
Boron	ppm	ASTM D5185		18	26	6.0
Barium	ppm	ASTM D5185		0.1	0.1	0.0
Molybdenum	ppm	ASTM D5185		95	89	2.0
Magnesium	ppm	ASTM D5185		451	441	10
Calcium	ppm	ASTM D5185		1782	1798	2382
Phosphorus	ppm	ASTM D5185		705	770	996
Zinc	ppm	ASTM D5185		903	932	1198
Sulfur	ppm	ASTM D5185		1945	2280	3390
Oxidation (PA)	%	ASTM D7414	>100	94	86	66
Visc @ 100°C	cSt	ASTM D7279		12.6	12.7	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC994123 **Received** : 01 Sep 2017
Lab Number : 02167155 **Diagnosed** : 22 Sep 2017
Unique Number : 4562226 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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To discuss diagnosis or test data, contact Technical Support at 1-800-268-2131.
 To change component or sample information, contact Customer Service at 1-800-268-2131.