



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO D13 2012 17-INNT-01-011-M (S/N 4V4NC9EJDN133467)

Component
Front Diesel Engine

Fluid
MOBIL 15W40 (40 LTR)



PRODUIT : ZP-700 ADDITIF MOTEUR - Cas d'étude #04- b / 2 de 3

RECOMMENDATION

Resample at the next service interval to monitor.

Commentaires :

Cette unité est désormais affectée au service local.

Le ZP-700 est ajouté aux changements d'huile.

Texte & Soulignement en bleu par Adrenalube

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				WC0323763	WC113770	WC113343
Sample Date				09 May 2019	29 Nov 2018	20 Sep 2018
Machine Age	kms			1388190	1364125	1352340
Oil Age	kms			24065	11785	21319
Filter Age	kms			24065	11785	21319
Oil Changed				Not Changd	Not Changd	Changed
Filter Changed				Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185	>80	50	11	21
Chromium	ppm	ASTM D5185	>6	<1	0	<1
Nickel	ppm	ASTM D5185	>2	1	<1	<1
Titanium	ppm	ASTM D5185	>2	<1	<1	0
Silver	ppm	ASTM D5185	>2	0	0	0
Aluminum	ppm	ASTM D5185	>20	8	3	4
Lead	ppm	ASTM D5185	>95	2	<1	1
Copper	ppm	ASTM D5185	>85	2	1	3
Tin	ppm	ASTM D5185	>9	<1	0	<1
Vanadium	ppm	ASTM D5185		0	0	0

CONTAMINATION

There is no indication of any contamination in the oil.

Contamination acceptable : pour la suie, la nitration et la sulfatation.

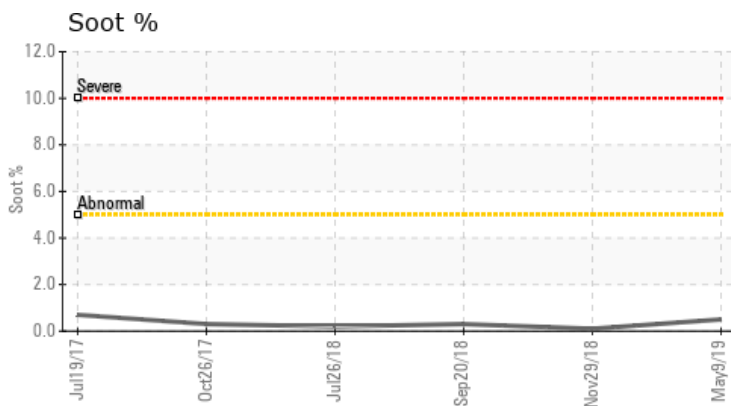
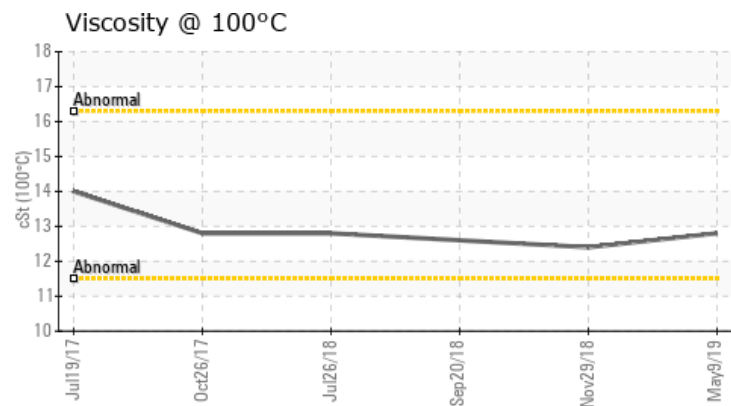
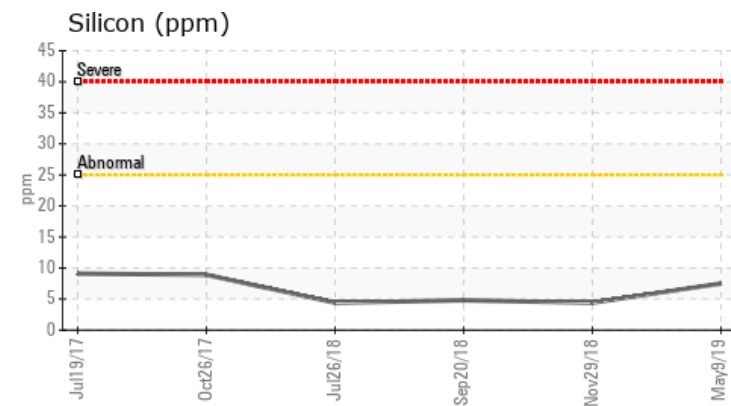
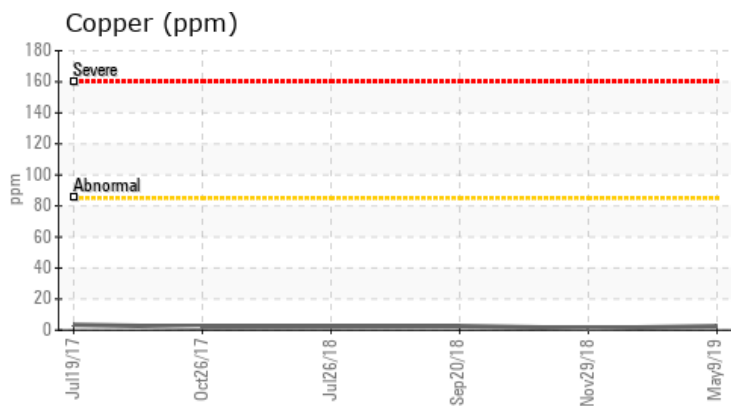
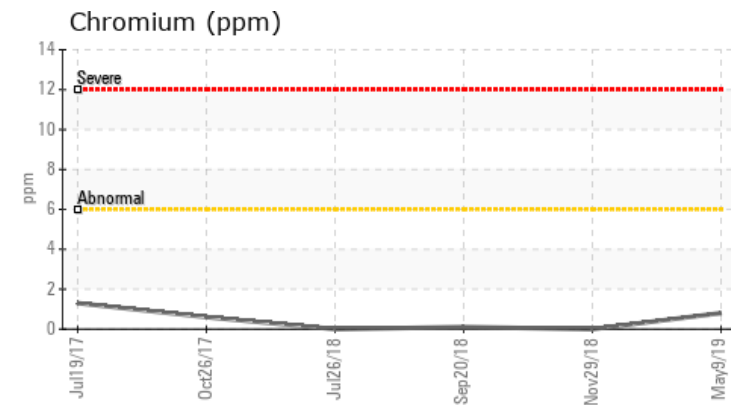
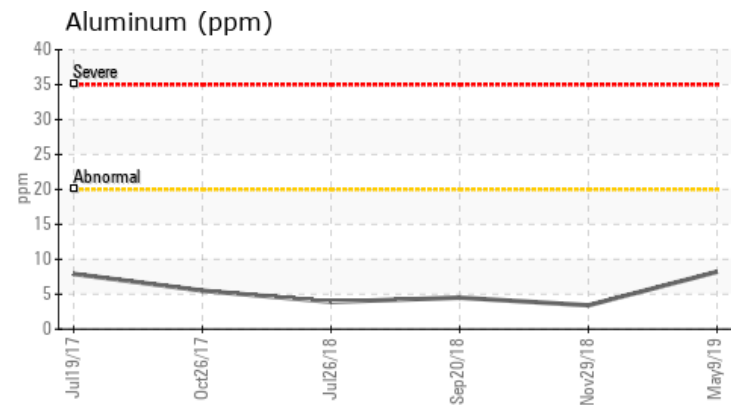
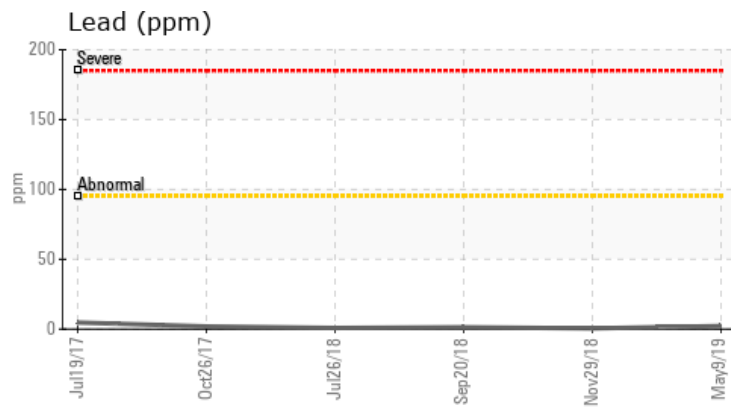
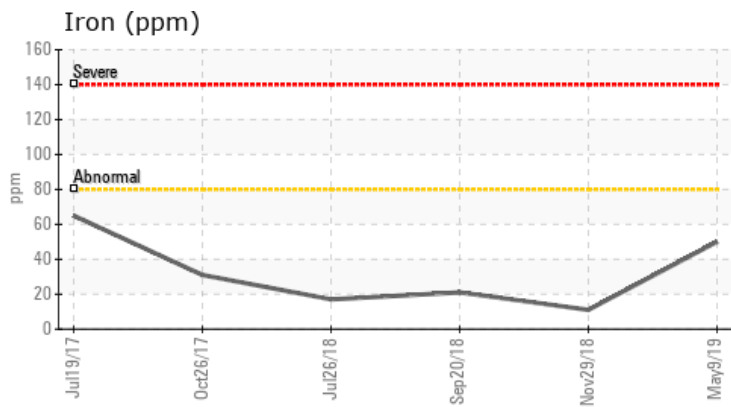
Silicon	ppm	ASTM D5185	>25	8	4	5
Potassium	ppm	ASTM D5185	>20	5	2	3
Fuel		ASTM D3524	>4.0	<1.0	<1.0	<1.0
Glycol		ASTM D2982		NEG	NEG	NEG
Soot %	%	ASTM D7686		0.5	0.1	0.3
Nitration	Abs/cm	ASTM D7624	>20	14.5	10.0	11.7
Sulfation	Abs/.1mm	ASTM D7415	>30	26.7	22.2	23.0
Emulsified Water	scalar	Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185	>118	11	10	8
Boron	ppm	ASTM D5185		31	34	15
Barium	ppm	ASTM D5185		0	0	0
Molybdenum	ppm	ASTM D5185		70	70	42
Manganese	ppm	ASTM D5185		<1	<1	<1
Magnesium	ppm	ASTM D5185		451	445	450
Calcium	ppm	ASTM D5185		1620	1585	1612
Phosphorus	ppm	ASTM D5185		727	691	705
Zinc	ppm	ASTM D5185		860	812	849
Sulfur	ppm	ASTM D5185		2074	2037	2151
Oxidation	Abs/.1mm	ASTM D7414	>25	29.2	22.1	24.0
Visc @ 100°C	cSt	ASTM D7279		12.8	12.4	12.6

Condition de l'huile acceptable : pour l'oxydation et la viscosité @ 100°C : 12.4 - 12.8 (dans la norme).



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0323763 **Received** : 16 May 2019
Lab Number : 02285450 **Diagnosed** : 16 May 2019
Unique Number : 4864694 **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.