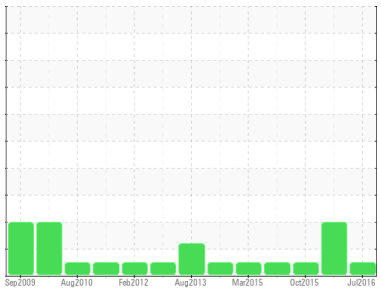
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
2007 PETERBILT 9628H
Component
Hydraulic System
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (40 GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KLM2335349**	KLM2322591	KLM2336007
Sample Date		Client Info		**27 Jul 2016**	20 Jan 2016	16 Oct 2015
Machine Age	mls	Client Info		**235765**	235748	229640
Oil Age	mls	Client Info		**21376**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**3**	4	3
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	0
Nickel	ppm	ASTM D5185m		**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**8**	9	8
Lead	ppm	ASTM D5185m	>10	**<1**	3	2
Copper	ppm	ASTM D5185m	>75	**11**	14	13
Tin	ppm	ASTM D5185m	>10	**3**	5	0
Antimony	ppm	ASTM D5185m		**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	151	**347**	299	287
Barium	ppm	ASTM D5185m	0.4	**<1**	<1	0
Molybdenum	ppm	ASTM D5185m	250	**63**	58	58
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**318**	344	342
Calcium	ppm	ASTM D5185m	2046	**1448**	1472	1477
Phosphorus	ppm	ASTM D5185m	1043	**869**	879	878
Zinc	ppm	ASTM D5185m	943	**1083**	1090	1078
Sulfur	ppm	ASTM D5185m	5012	**3448**	3624	3441

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**5**	4	4
Sodium	ppm	ASTM D5185m		**2**	3	4
Potassium	ppm	ASTM D5185m	>20	**1**	1	2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		**88**	10558.	639
Particles >6µm	ASTM D7647	>1300	**48**	▲ 5751.	348
Particles >14µm	ASTM D7647	>160	**8**	▲ 979.	59
Particles >21µm	ASTM D7647	>40	**2**	▲ 330.	20
Particles >38µm	ASTM D7647	>10	**0**	▲ 51.	3
Particles >71µm	ASTM D7647	>3	**0**	▲ 5.	0
Oil Cleanliness	ISO 4406 (c)	>17/14	**13/10**	▲ 20/17	16/13

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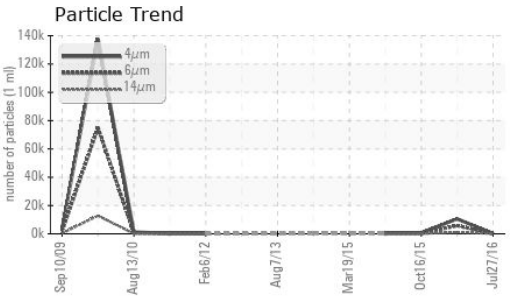
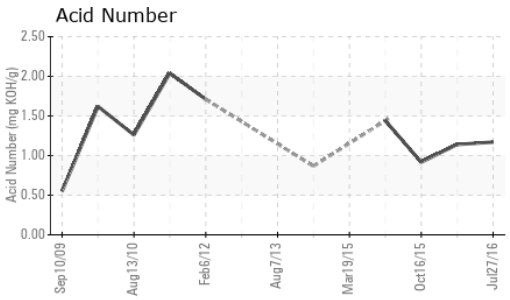
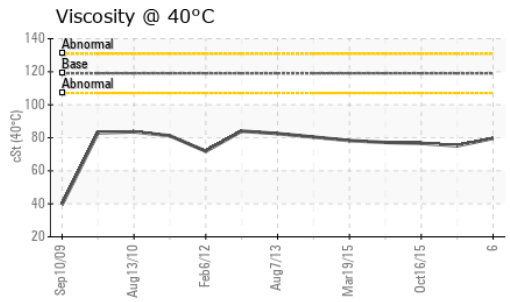
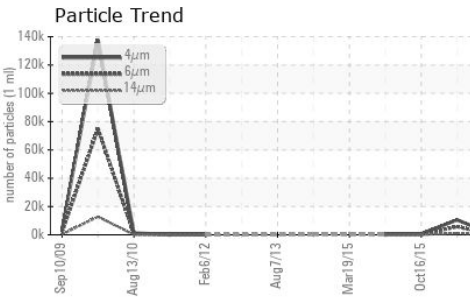








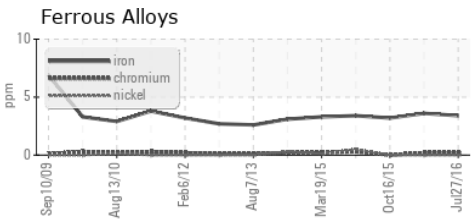
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.17**	1.14	0.916

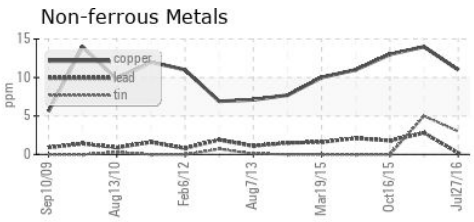
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

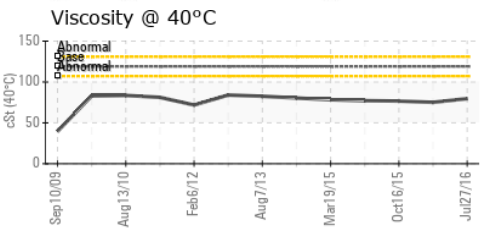
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	119	**79.67**	75.11	76.66

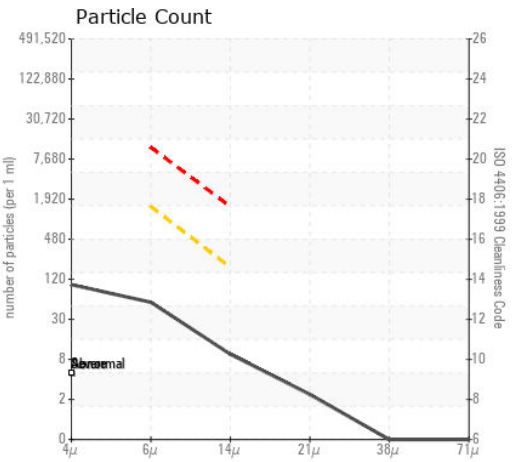
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

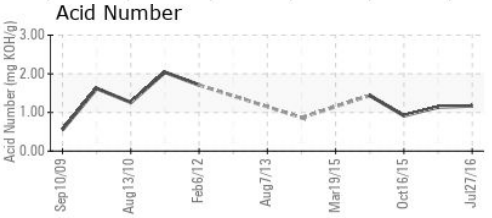
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLM2335349
Lab Number : 04042046
Unique Number : 7497608
Test Package : MOB 2

Recieved : 09 Aug 2016
Diagnosed : 11 Aug 2016
Diagnostician : Don Baldridge

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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