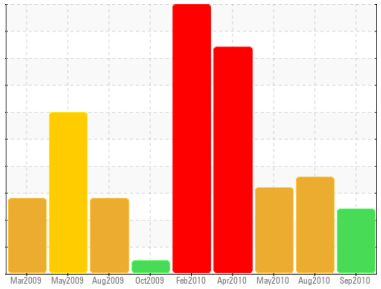
OIL ANALYSIS REPORT

Area
KEMP QUARRIES / PRYOR STONE [10274136007]
Machine Id
WL049
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

Sample Rating Trend



SOOT

DIAGNOSIS

Recommendation
We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is an abnormal amount of solids and carbon present in the oil. The water content is negligible.

Fluid Condition
Viscosity of sample indicates oil is within SAE 50 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA74136007**	PCA28571048	PCA44220057
Sample Date		Client Info		**27 Sep 2010**	07 Aug 2010	18 May 2010
Machine Age	hrs	Client Info		**22418**	22079	21768
Oil Age	hrs	Client Info		**339**	311	314
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	SEVERE	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method		**<1.0**	<1.0	<1.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		**65**	▲ 78	▲ 85
Chromium	ppm	ASTM D5185(m)		**0**	0	1
Nickel	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)		**1**	1	1
Lead	ppm	ASTM D5185(m)		**0**	2	1
Copper	ppm	ASTM D5185(m)		**5**	7	7
Tin	ppm	ASTM D5185(m)		**1**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**29**	15	21
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**41**	35	36
Magnesium	ppm	ASTM D5185(m)		**411**	366	328
Calcium	ppm	ASTM D5185(m)		**2040**	1907	1771
Phosphorus	ppm	ASTM D5185(m)		**994**	860	827
Zinc	ppm	ASTM D5185(m)		**1126**	1055	961

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**4**	5	7
Sodium	ppm	ASTM D5185(m)		**2**	2	6
Potassium	ppm	ASTM D5185(m)		**1**	2	3
Water	%	ASTM D6304*		**0**	0	0.19
Glycol	%	ASTM D7922*		**0.0**	0.0	0.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		⬢ **3.58**	⬢ 3.94	⬢ 3.69

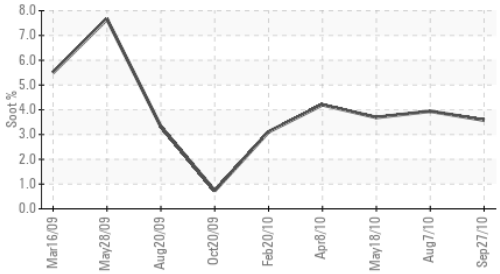
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**6**	4	0

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		▲ **16.9**	⬢ 17.6	▲ 16.8

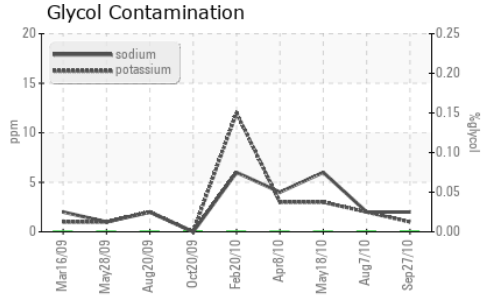
OIL ANALYSIS REPORT

GRAPHS

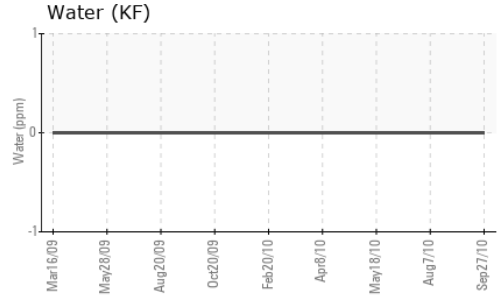
Soot %



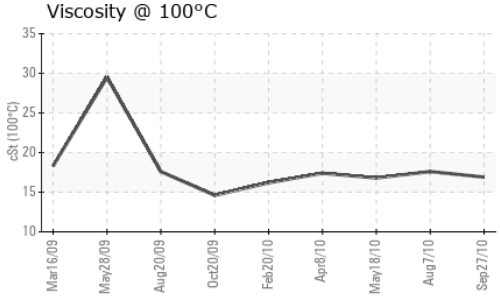
Glycol Contamination



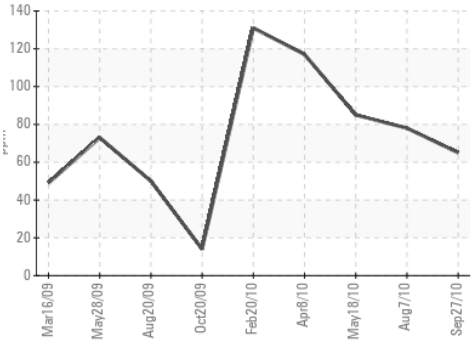
Water (KF)



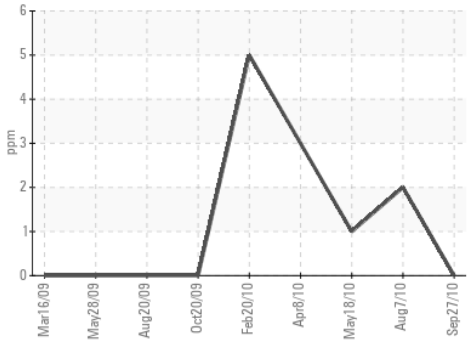
Viscosity @ 100°C



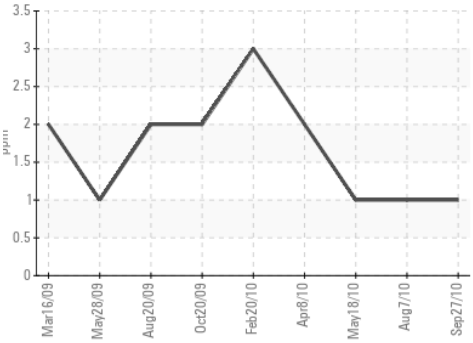
Iron (ppm)



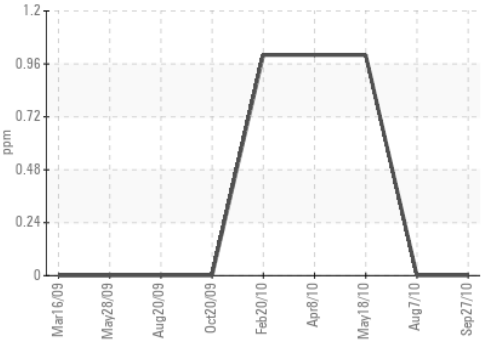
Lead (ppm)



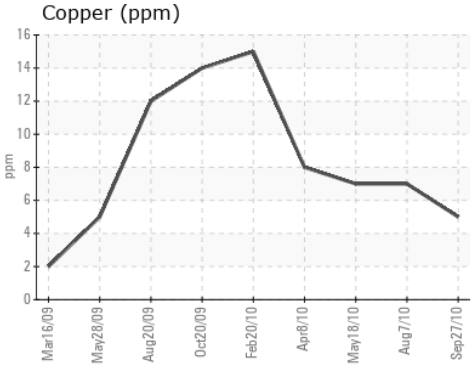
Aluminum (ppm)



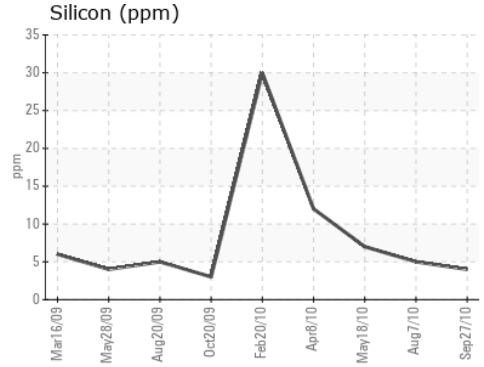
Chromium (ppm)



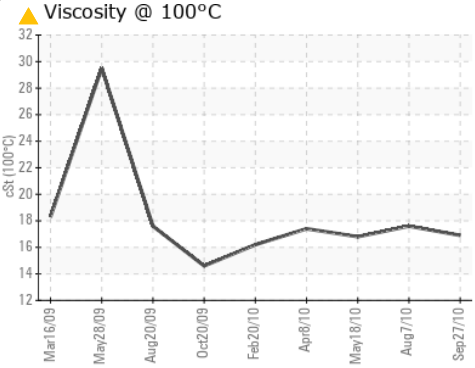
Copper (ppm)



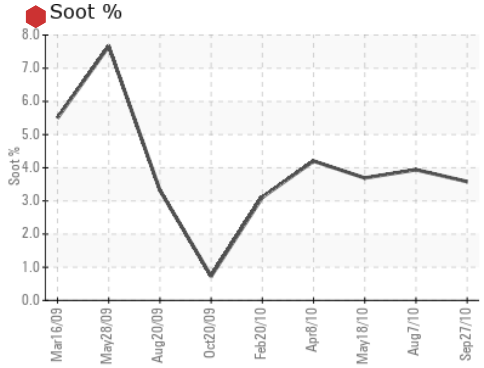
Silicon (ppm)



Viscosity @ 100°C



Soot %



Laboratory : WearCheck -
Sample No. : PCA74136007
Lab Number : 74136007
Unique Number : 12895391
Test Package : MOB1+ (Additional Tests: FT-IR, Glycol, ICP, KF, KV100)

Received : 01 Oct 2010
Diagnosed : 05 Jun 2019
Diagnostician : Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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