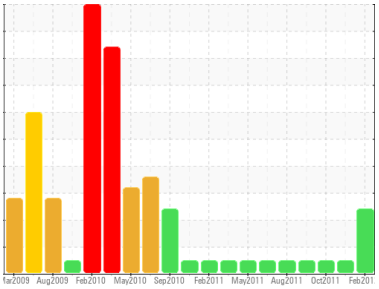
OIL ANALYSIS REPORT

Area
KEMP QUARRIES / PRYOR STONE [12048172055]
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 40 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		**PCA48172055**	PCA53186071	PCA01517007
Sample Date		Client Info		**07 Feb 2012**	03 Dec 2011	17 Oct 2011
Machine Age	hrs	Client Info		**25939**	25614	25331
Oil Age	hrs	Client Info		**316**	310	310
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	NORMAL	NORMAL

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)		**25**	6	7
Chromium	ppm	ASTM D5185(m)		**0**	0	0
Nickel	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)		**2**	1	2
Lead	ppm	ASTM D5185(m)		**0**	0	0
Copper	ppm	ASTM D5185(m)		**2**	1	1
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)		**36**	36	43
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**35**	35	38
Magnesium	ppm	ASTM D5185(m)		**352**	428	423
Calcium	ppm	ASTM D5185(m)		**1868**	1711	2058
Phosphorus	ppm	ASTM D5185(m)		**897**	976	1058
Zinc	ppm	ASTM D5185(m)		**944**	970	1184

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**4**	2	3
Sodium	ppm	ASTM D5185(m)		**3**	1	0
Potassium	ppm	ASTM D5185(m)		**4**	1	1
Water	%	ASTM D6304*		**0.13**	0	0
Glycol	%	ASTM D7922*		**0.0**	0.0	0.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**3.52**	0.23	0.35

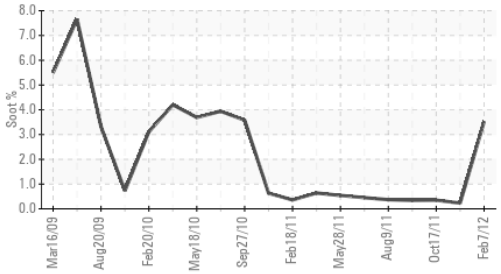
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**5**	4	5

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		**16.1**	14.2	14.4

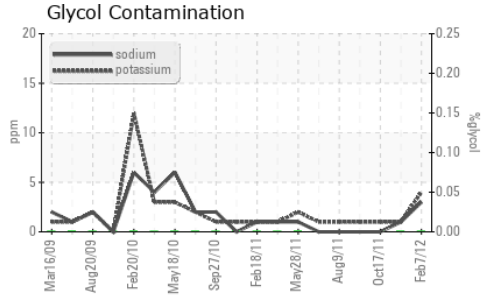
OIL ANALYSIS REPORT

GRAPHS

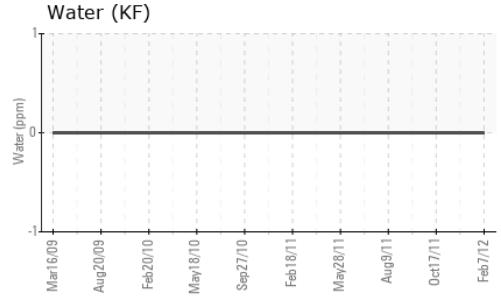
Soot %



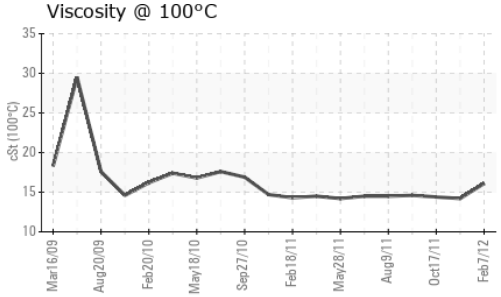
Glycol Contamination



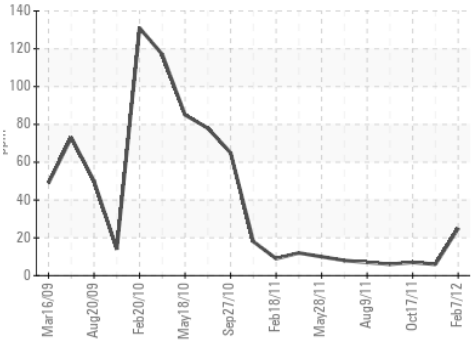
Water (KF)



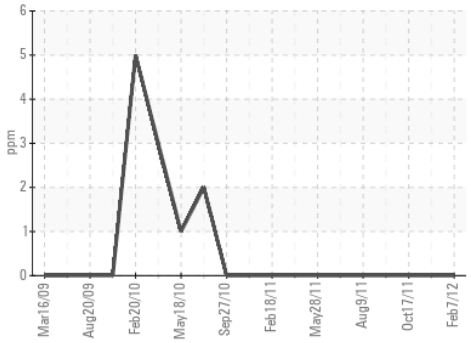
Viscosity @ 100°C



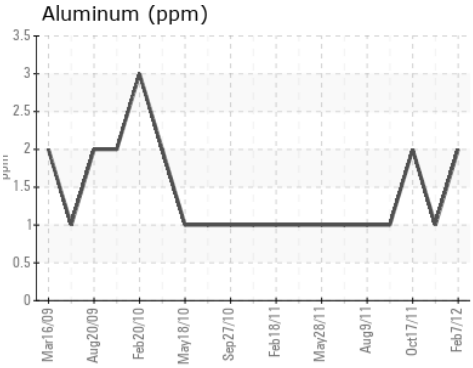
Iron (ppm)



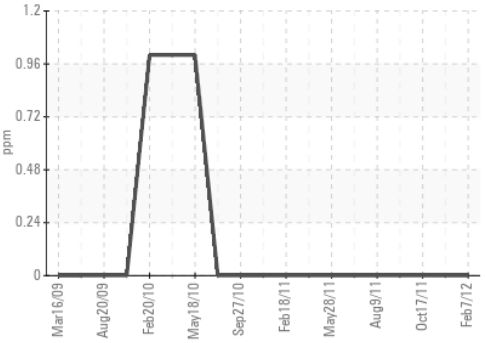
Lead (ppm)



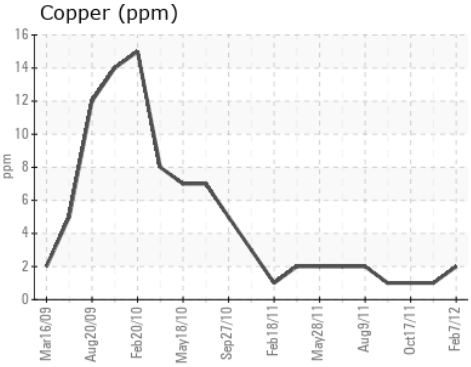
Aluminum (ppm)



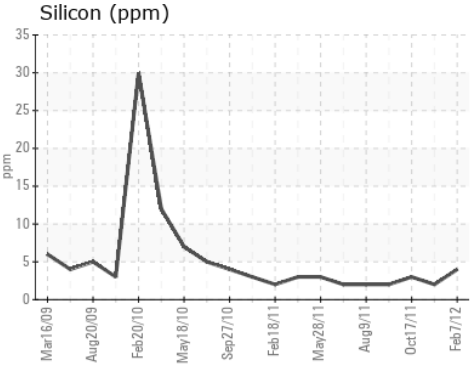
Chromium (ppm)



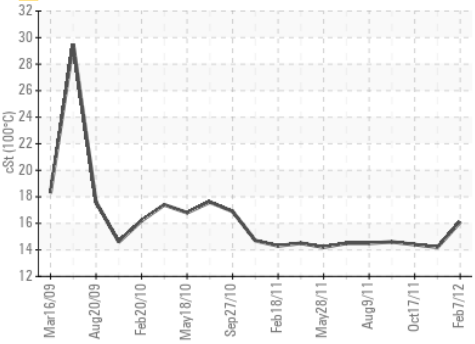
Copper (ppm)



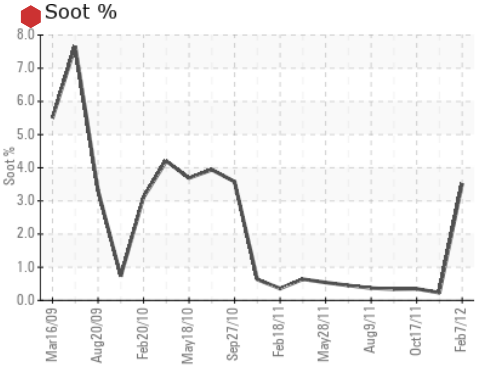
Silicon (ppm)



Viscosity @ 100°C



Soot %



Laboratory : WearCheck -
Sample No. : PCA48172055
Lab Number : 48172055
Unique Number : 12894918
Test Package : MOB1+ (Additional Tests: FT-IR, Glycol, ICP, KF, KV100)

Received : 17 Feb 2012
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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