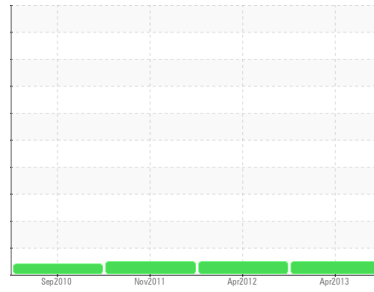


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
KEMP QUARRIES [13211498058]
 Machine Id
TTHO10
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA11498058	PCA00390009	PCA32183022
Sample Date	Client Info			20 Apr 2013	03 Apr 2012	02 Nov 2011
Machine Age	hrs	Client Info		1353	18738	18402
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	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)		5	10	20
Chromium	ppm	ASTM D5185(m)		0	1	3
Nickel	ppm	ASTM D5185(m)		0	0	1
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)		0	0	0
Tin	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		55	44	41
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		38	38	36
Magnesium	ppm	ASTM D5185(m)		433	433	369
Calcium	ppm	ASTM D5185(m)		1977	2320	2135
Phosphorus	ppm	ASTM D5185(m)		1063	1081	963
Zinc	ppm	ASTM D5185(m)		1141	1176	1109

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

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.2	0.13	0.56

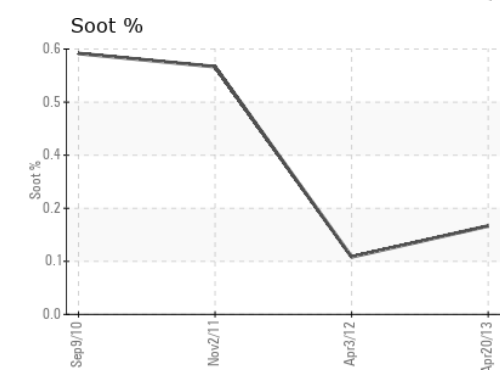
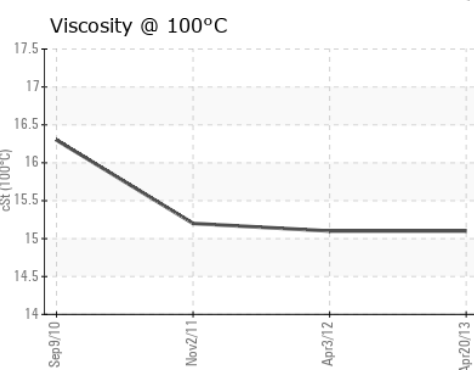
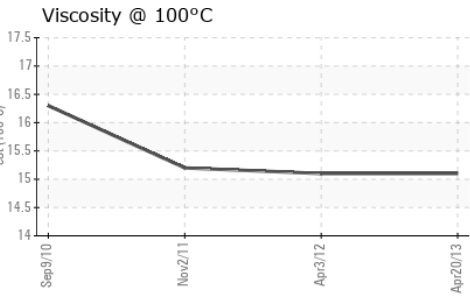
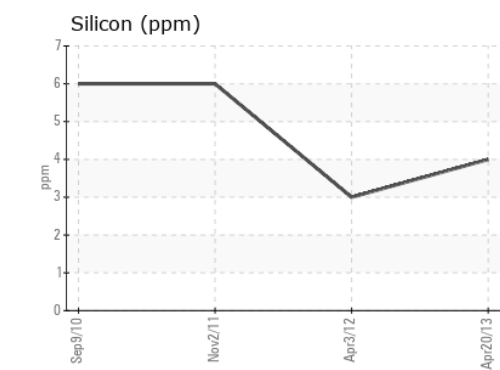
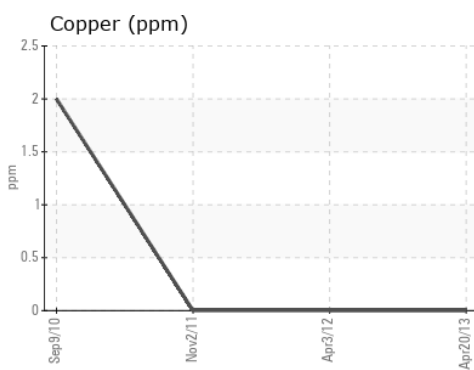
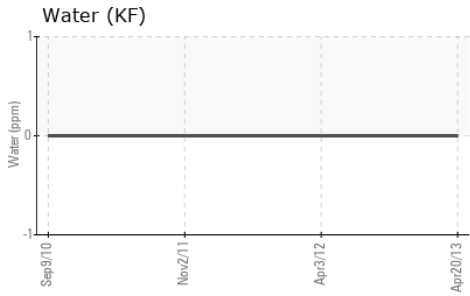
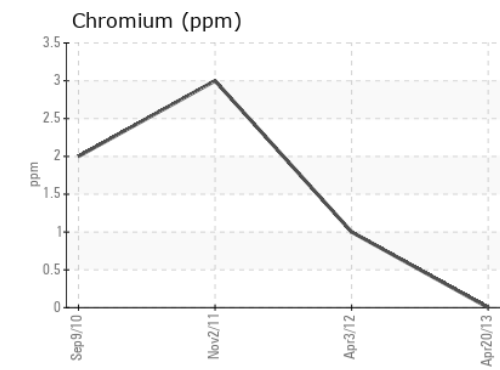
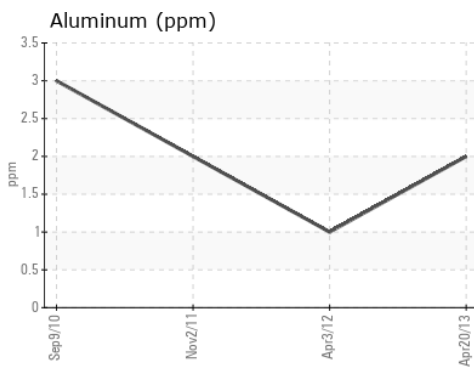
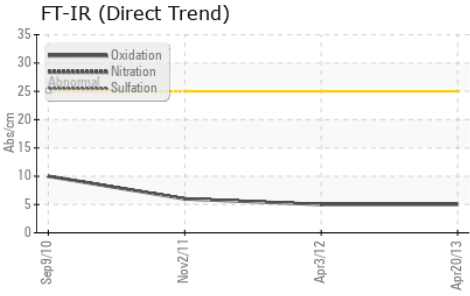
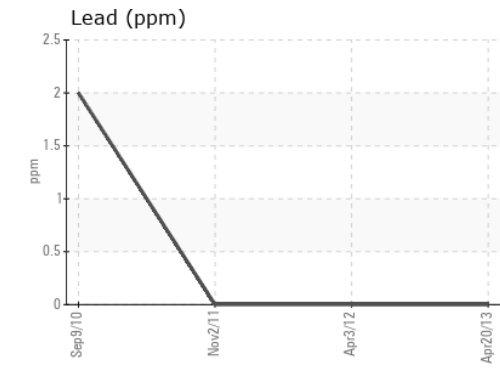
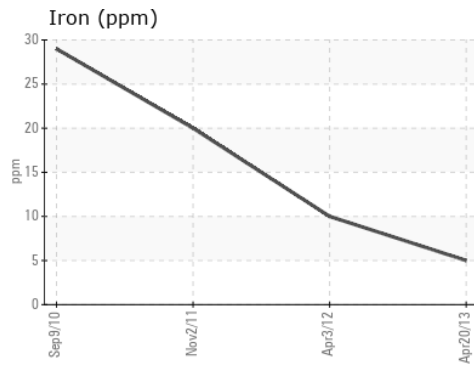
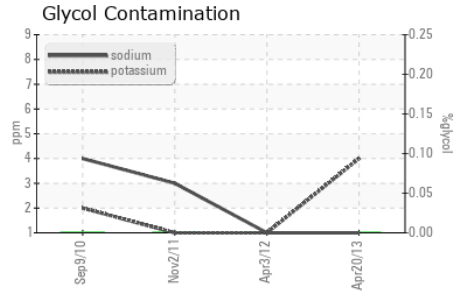
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		5	5	6

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		15.1	15.1	15.2



OIL ANALYSIS REPORT

GRAPHS



Laboratory : WearCheck -
 Sample No. : PCA11498058
 Lab Number : 11498058
 Unique Number : 12887108
 Test Package : MOB1+ (Additional Tests: FT-IR, Glycol, ICP, KF, KV100)

Received : 30 Jul 2013
 Tested : 31 Jul 2013
 Diagnosed : 05 Jun 2019 - Wes Davis

Kemp Quarries - SOLD/INACTIVE

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.

US
 Contact: Service Manager

T:
 F: