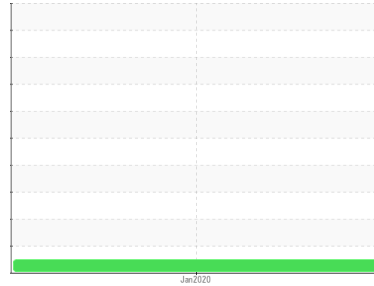


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
KEMP QUARRIES / RIVER VALLEY INTERMODAL [20038411040]
 Machine Id
9220
 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

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	history 1	history 2
Sample Number	Client Info			PCA38411040	---	---
Sample Date	Client Info			13 Jan 2020	---	---
Machine Age	mls	Client Info		97522	---	---
Oil Age	mls	Client Info		12000	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				NORMAL	---	---

CONTAMINATION		method	limit/base	current	history 1	history 2
Fuel	WC Method			---	---	---

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)		37	---	---
Chromium	ppm	ASTM D5185(m)		1	---	---
Nickel	ppm	ASTM D5185(m)		0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)		2	---	---
Lead	ppm	ASTM D5185(m)		4	---	---
Copper	ppm	ASTM D5185(m)		5	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)		25	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		34	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		452	---	---
Calcium	ppm	ASTM D5185(m)		1359	---	---
Phosphorus	ppm	ASTM D5185(m)		728	---	---
Zinc	ppm	ASTM D5185(m)		771	---	---

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)		5	---	---
Sodium	ppm	ASTM D5185(m)		5	---	---
Potassium	ppm	ASTM D5185(m)		1	---	---
Glycol	%	ASTM D7922*		0.0	---	---

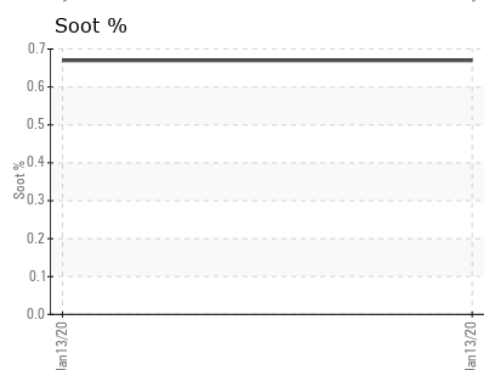
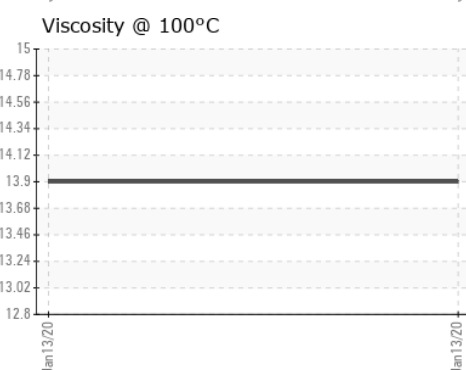
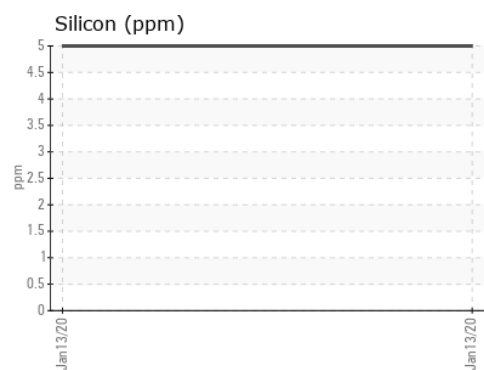
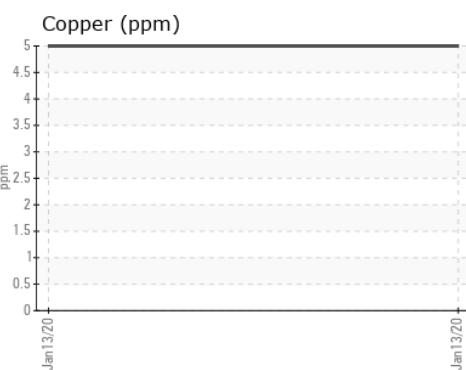
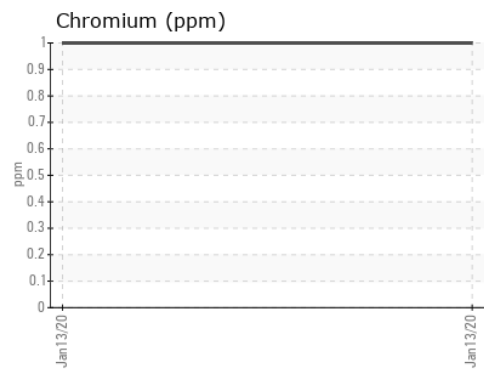
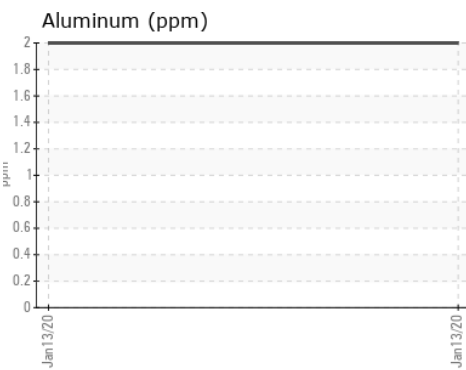
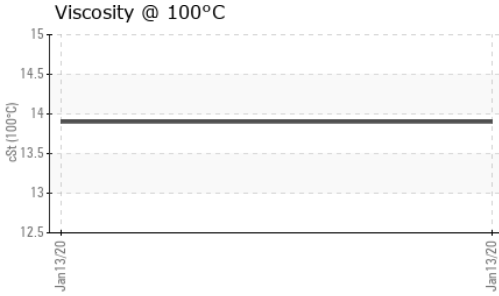
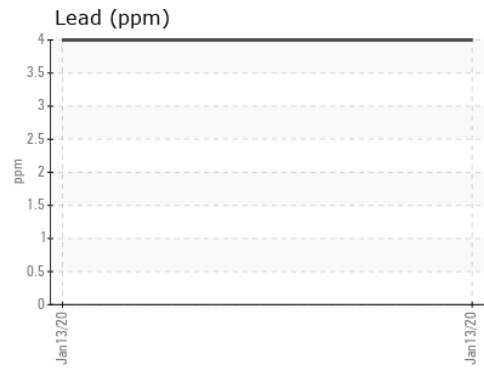
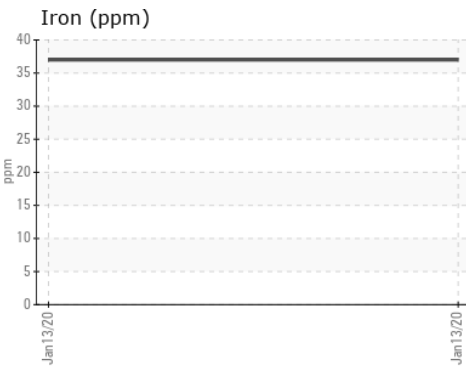
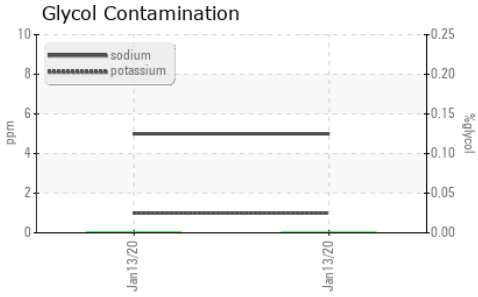
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*		0.67	---	---

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs./1mm	ASTM D7414*		5	---	---

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)		13.9	---	---

OIL ANALYSIS REPORT

GRAPHS



Laboratory : WearCheck -
Sample No. : PCA38411040 **Received** : 08 Feb 2020
Lab Number : **38411040** **Diagnosed** : 25 Feb 2020
Unique Number : 13442180 **Diagnostician** : Wes Davis
Test Package : MOB1+ (Additional Tests: FT-IR, Glycol, ICP, KV100)
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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