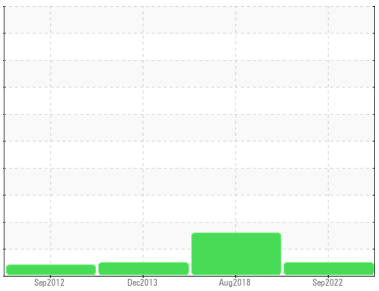
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Sample Rating Trend



NORMAL

Area
KEMP QUARRIES / BCS - GRAVETTE
Machine Id
7266
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: Changed fluid and filters)

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0062443**	PCA39422055	PCA27511013
Sample Date		Client Info		**22 Sep 2022**	20 Aug 2018	31 Dec 2013
Machine Age	hrs	Client Info		**15867**	3913	3070
Oil Age	hrs	Client Info		**15867**	500	---
Oil Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**NORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	0.0	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**16**	52	11
Chromium	ppm	ASTM D5185m	>20	**1**	8	0
Nickel	ppm	ASTM D5185m	>2	**0**	2	0
Titanium	ppm	ASTM D5185m	>2	**0**	0	---
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**3**	8	3
Lead	ppm	ASTM D5185m	>40	**2**	25	4
Copper	ppm	ASTM D5185m	>330	**3**	143	1
Tin	ppm	ASTM D5185m	>15	**<1**	3	2
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**2**	34	47
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**70**	51	52
Manganese	ppm	ASTM D5185m		**<1**	---	---
Magnesium	ppm	ASTM D5185m	0	**1059**	615	529
Calcium	ppm	ASTM D5185m		**1235**	1961	2543
Phosphorus	ppm	ASTM D5185m		**1144**	945	1229
Zinc	ppm	ASTM D5185m		**1385**	1122	1417
Sulfur	ppm	ASTM D5185m		**3855**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**3**	▲ 16	5
Sodium	ppm	ASTM D5185m		**0**	2	5
Potassium	ppm	ASTM D5185m	>20	**2**	5	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.1**	0.34	0.21
Nitration	Abs/cm	*ASTM D7624	>20	**8.4**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.1**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.9**	6	17
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**10.3**	---	---

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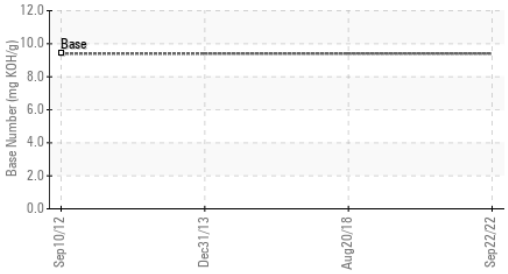
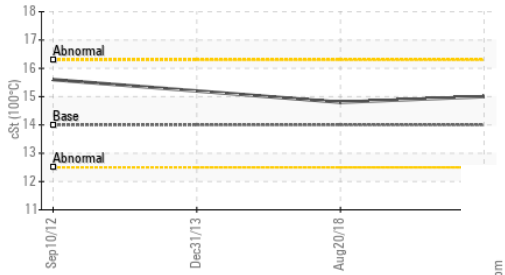
Base Number



Viscosity @ 100°C

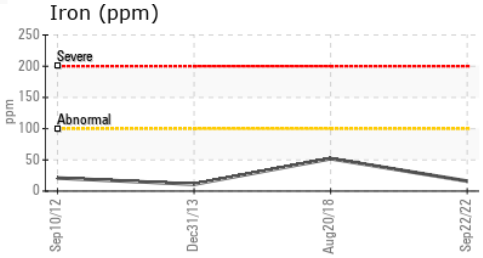


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

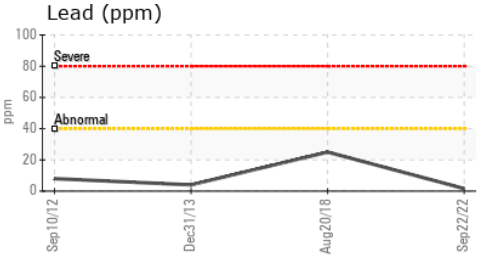
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	**15.0**	14.8	15.2

GRAPHS

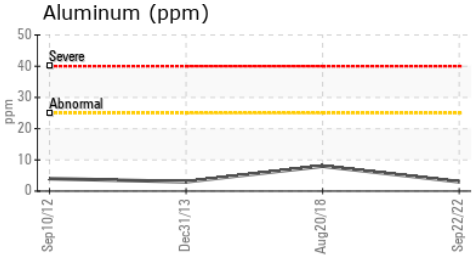
Iron (ppm)



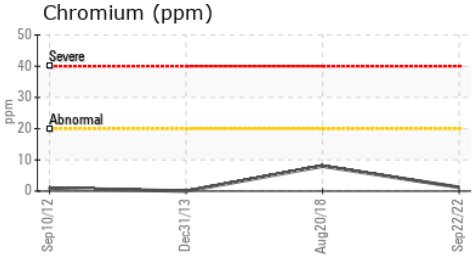
Lead (ppm)



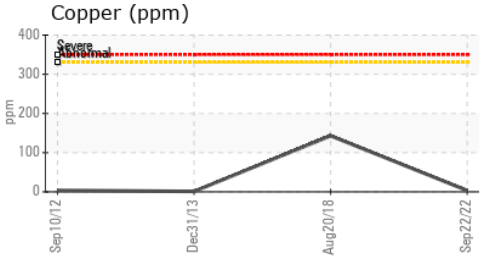
Aluminum (ppm)



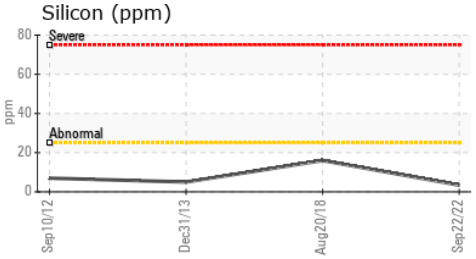
Chromium (ppm)



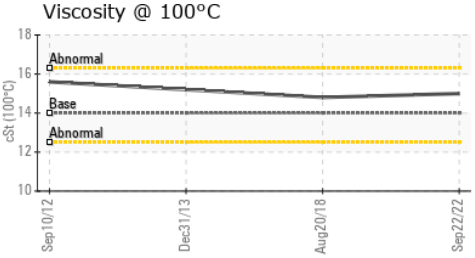
Copper (ppm)



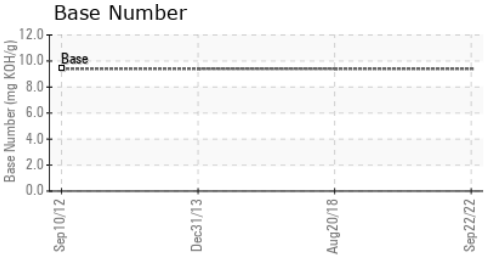
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0062443 **Received** : 29 Sep 2022
Lab Number : 05654596 **Diagnosed** : 04 Oct 2022
Unique Number : 10154148 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN)

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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