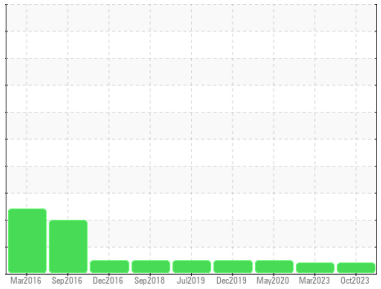
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
FUEL
Machine Id
322
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0104667**	PCA0066625	PCA0018641
Sample Date		Client Info		**27 Oct 2023**	06 Mar 2023	28 May 2020
Machine Age	mls	Client Info		**316635**	316635	72000
Oil Age	mls	Client Info		**316635**	244635	0
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**ATTENTION**	ATTENTION	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	0.3	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>65	**25**	47	23
Chromium	ppm	ASTM D5185m	>5	**2**	4	2
Nickel	ppm	ASTM D5185m	>3	**<1**	0	<1
Titanium	ppm	ASTM D5185m	>5	**<1**	2	0
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>35	**6**	27	17
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>180	**5**	4	45
Tin	ppm	ASTM D5185m	>8	**<1**	<1	<1
Antimony	ppm	ASTM D5185m	>35	**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**2**	4	25
Barium	ppm	ASTM D5185m	0	**<1**	0	0
Molybdenum	ppm	ASTM D5185m	0	**64**	57	31
Manganese	ppm	ASTM D5185m		**0**	1	<1
Magnesium	ppm	ASTM D5185m	0	**987**	897	501
Calcium	ppm	ASTM D5185m		**1081**	1097	1529
Phosphorus	ppm	ASTM D5185m		**1060**	941	618
Zinc	ppm	ASTM D5185m		**1291**	1225	775
Sulfur	ppm	ASTM D5185m		**3427**	3029	1882

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**4**	10	4
Sodium	ppm	ASTM D5185m		**11**	3	4
Potassium	ppm	ASTM D5185m	>20	**11**	2	42

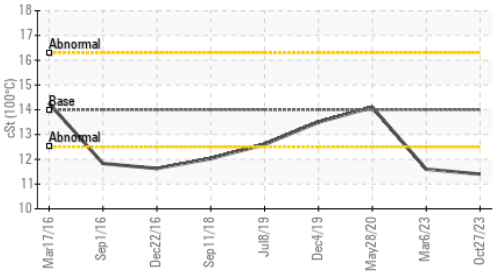
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.8**	1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	**9.2**	10.3	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.5**	21.2	23.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.0**	17.1	22
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**11.32**	9.40	7.47

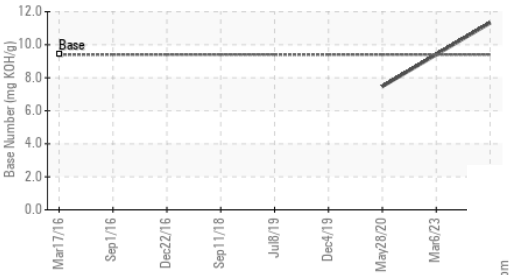
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Viscosity @ 100°C



Base Number

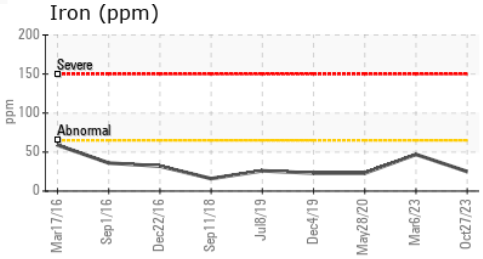


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

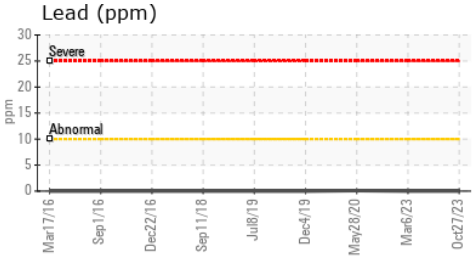
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	▲ **11.4**	▲ 11.6	14.1

GRAPHS

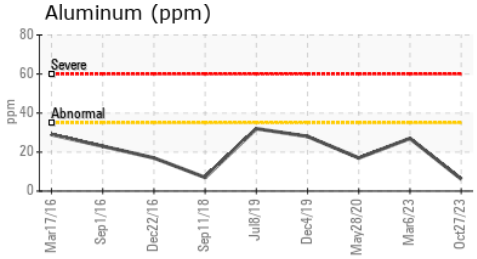
Iron (ppm)



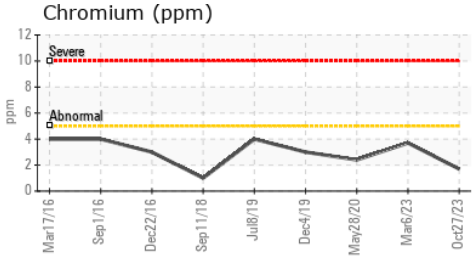
Lead (ppm)



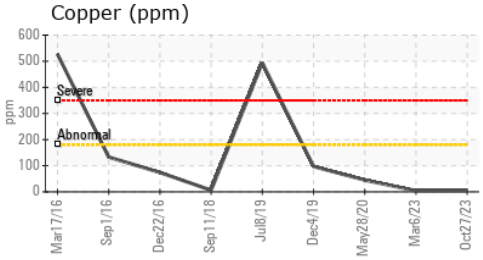
Aluminum (ppm)



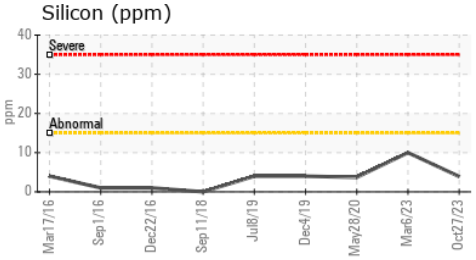
Chromium (ppm)



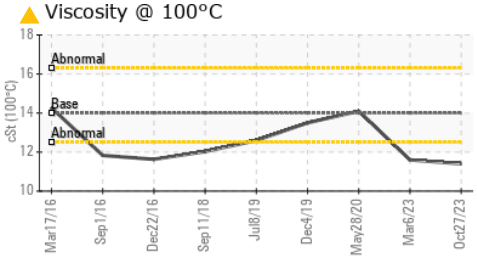
Copper (ppm)



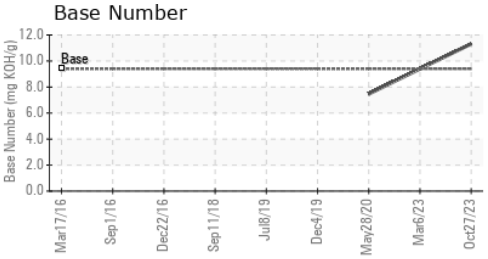
Silicon (ppm)



▲ Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104667
Lab Number : 05995878
Unique Number : 10724238
Test Package : MOB 2
Received : 01 Nov 2023
Diagnosed : 02 Nov 2023
Diagnostician : Sean Felton

DENNIS K BURKE INC - INTERNAL SAMPLES
555 CONSTITUTION DR
TAUNTON, MA
US 02780
Contact: GREG DUNKER

T:
F: (617)889-6422

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)