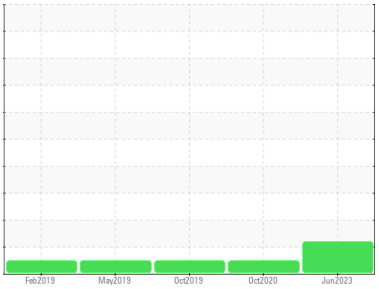
PROBLEM SUMMARY

Sample Rating Trend



DEGRADATION

Machine Id
PETERBILT 365 E-617 (S/N 1NPSXPEX3ED225024)
Component
Diesel Engine
Fluid
DURAMAX 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	NORMAL	NORMAL
Base Number (BN)	mg KOH/g	ASTM D2896		▲ **3.9**	6.5	6.3

Customer Id: EAICLA
Sample No.: WC0804124
Lab Number: 05905144
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

23 Oct 2020 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

28 Oct 2019 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

03 May 2019 Diag: Wes Davis

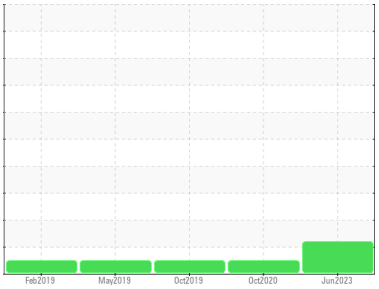
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
PETERBILT 365 E-617 (S/N 1NPSXPEX3ED225024)
Component
Diesel Engine
Fluid
DURAMAX 15W40 (--- GAL)

DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. 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 BN level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0804124**	WC0517961	WC0335855
Sample Date		Client Info		**28 Jun 2023**	23 Oct 2020	28 Oct 2019
Machine Age	mls	Client Info		**89846**	18060	228503
Oil Age	mls	Client Info		**0**	1000	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	**55**	48	15
Chromium	ppm	ASTM D5185m	>4	**2**	2	<1
Nickel	ppm	ASTM D5185m	>2	**<1**	1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**15**	19	4
Lead	ppm	ASTM D5185m	>45	**<1**	2	<1
Copper	ppm	ASTM D5185m	>85	**19**	3	2
Tin	ppm	ASTM D5185m	>4	**<1**	0	0
Antimony	ppm	ASTM D5185m		**---**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

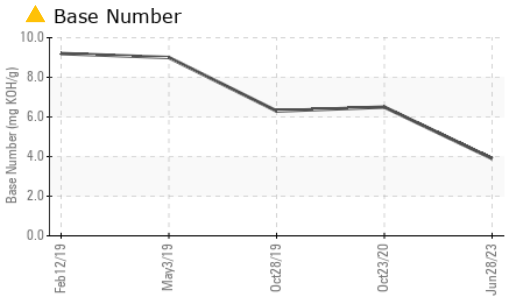
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	2	7
Barium	ppm	ASTM D5185m		**0**	<1	0
Molybdenum	ppm	ASTM D5185m		**6**	4	16
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**83**	117	309
Calcium	ppm	ASTM D5185m		**2488**	2619	2198
Phosphorus	ppm	ASTM D5185m		**924**	1005	918
Zinc	ppm	ASTM D5185m		**1132**	1137	1117
Sulfur	ppm	ASTM D5185m		**4087**	3332	2988

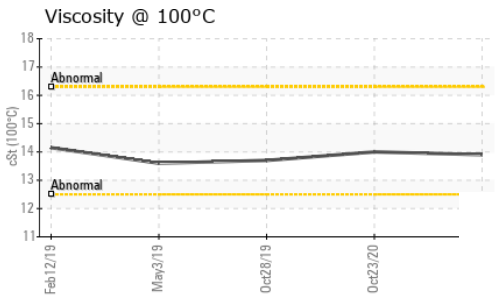
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	**12**	10	7
Sodium	ppm	ASTM D5185m		**16**	3	2
Potassium	ppm	ASTM D5185m	>20	**4**	18	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**1.3**	1.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	**13.2**	11.6	10
Sulfation	Abs/.1mm	*ASTM D7415	>30	**30.1**	27.4	23.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**22.0**	16.1	15.1
Base Number (BN)	mg KOH/g	ASTM D2896		**3.9**	6.5	6.3

OIL ANALYSIS REPORT

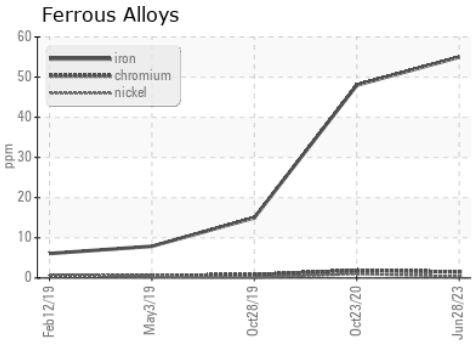


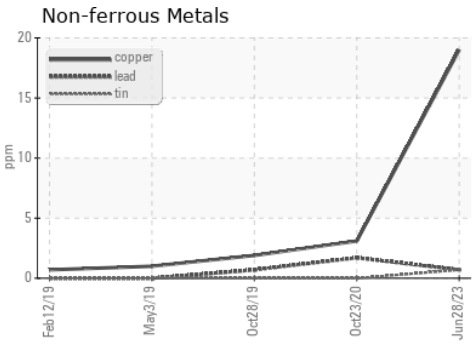


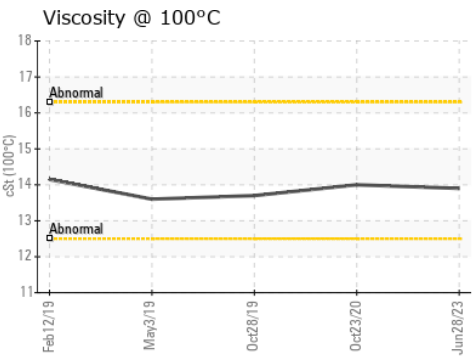
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

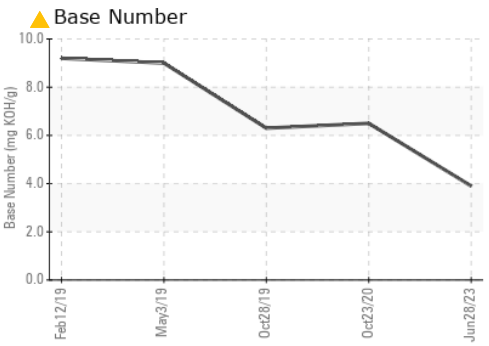
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**13.9**	14.0	13.7

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0804124 **Received** : 24 Jul 2023
Lab Number : 05905144 **Diagnosed** : 26 Jul 2023
Unique Number : 10566500 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: TBN)

Certificate L2367

EAI EQUIPMENT A DIIV OF PLEASANT CONSTRUCTION INC
24024 FREDERICK ROAD
CLARKSBURG, MD
US 20871
Contact: Service Manager

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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