



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 20
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0011930	KL0011937	KL0006549
Sample Date		Client Info		15 Nov 2023	24 May 2023	18 Apr 2023
Machine Age	mls	Client Info		290360	163000	253000
Oil Age	mls	Client Info		10000	20000	10000
Filter Age	mls	Client Info		10000	20000	10000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	18	13
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	14	11
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	2	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

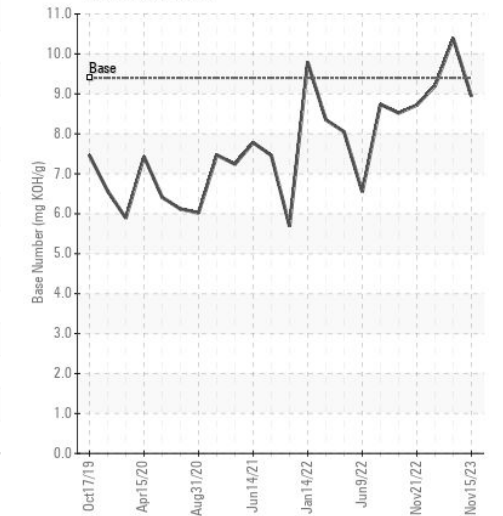
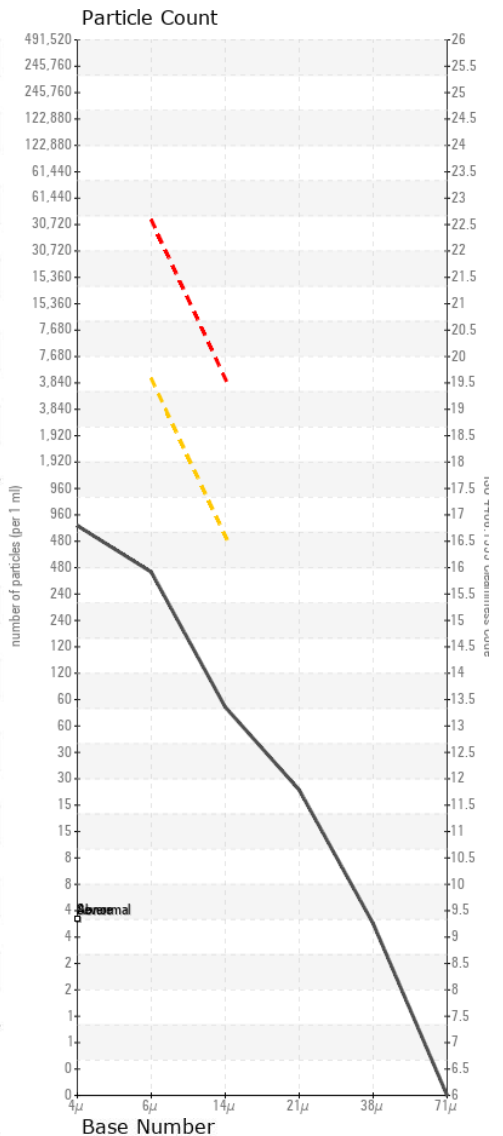
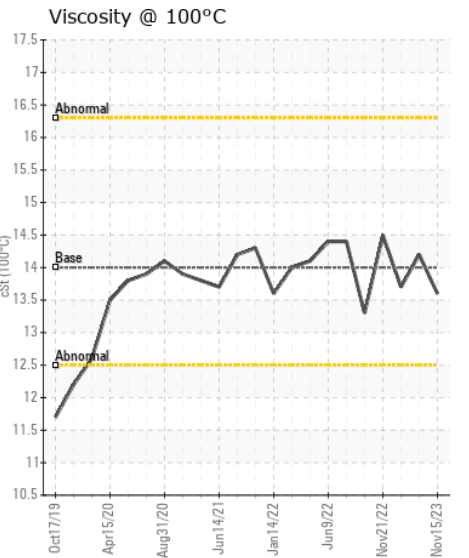
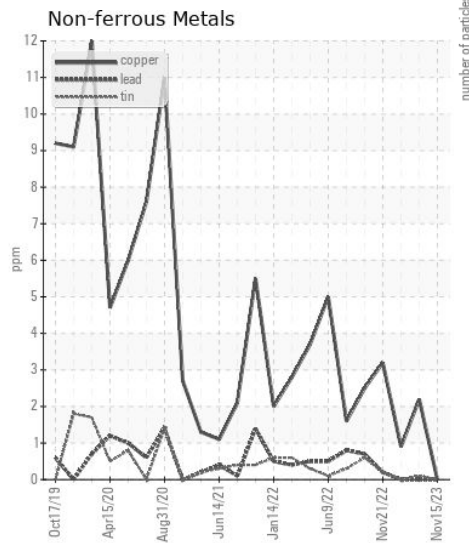
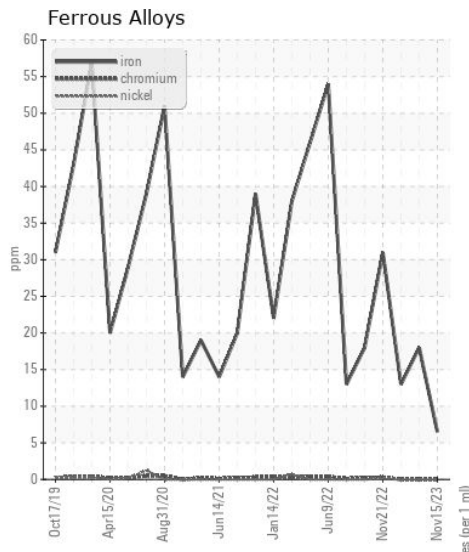
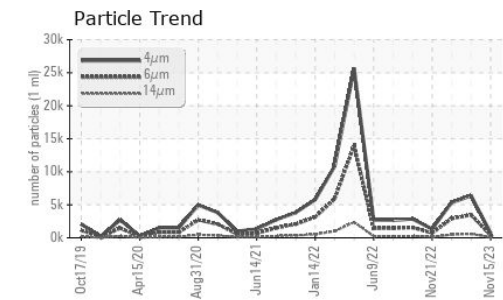
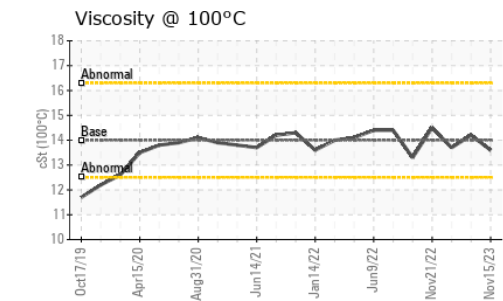
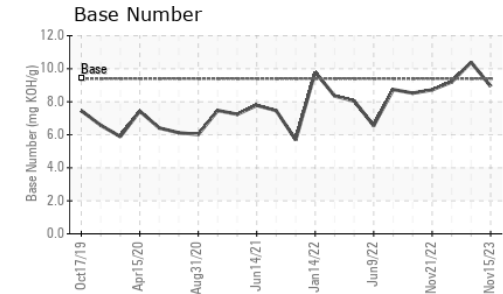
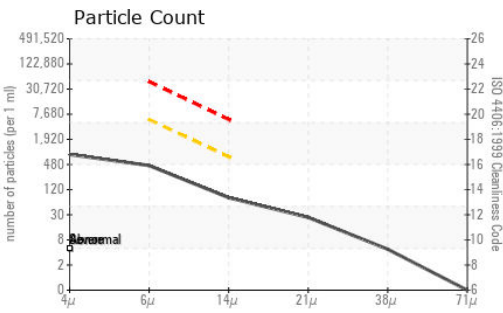
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	6	9	8
Potassium	ppm	ASTM D5185m	>20	10	26	17
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.2	9.1	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	23.1	22.5
Particles >4µm		ASTM D7647		731	6368	5342
Particles >6µm		ASTM D7647	>5000	398	3469	2910
Particles >14µm		ASTM D7647	>640	68	590	495
Particles >21µm		ASTM D7647	>160	23	199	167
Particles >38µm		ASTM D7647	>40	4	31	26
Particles >71µm		ASTM D7647	>10	0	3	3
Oil Cleanliness		ISO 4406 (c)	>19/16	16/13	19/16	19/16
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

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.

Sodium	ppm	ASTM D5185m		0	3	1
Boron	ppm	ASTM D5185m	0	33	24	30
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	39	45	43
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	522	588	555
Calcium	ppm	ASTM D5185m		1712	1888	1624
Phosphorus	ppm	ASTM D5185m		762	800	744
Zinc	ppm	ASTM D5185m		928	981	948
Sulfur	ppm	ASTM D5185m		3073	3797	3481
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.9	22.6	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.94	10.39	9.20
Visc @ 100°C	cSt	ASTM D445	14	13.6	14.2	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011930 **Received** : 14 Dec 2023
Lab Number : 06034750 **Tested** : 18 Dec 2023
Unique Number : 10789979 **Diagnosed** : 18 Dec 2023 - Wes Davis
Test Package : MOB 2 (Additional Tests: PrtCount)

BERRINGTON CUSTOM HAY
 PO BOX 540
 WELLINGTON, NV
 US 89444
 Contact: GARY BERRINGTON

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)

T: (775)465-2264

F: