



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 22
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0011928	KL0006547	KL0006543
Sample Date		Client Info		27 May 2023	09 Mar 2023	26 Oct 2022
Machine Age	mls	Client Info		80086	70093	60055
Oil Age	mls	Client Info		40000	31000	10000
Filter Age	mls	Client Info		40000	31000	10000
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	N/A
Sample Status				ATTENTION	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	64	61	31
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	18	22	15
Lead	ppm	ASTM D5185m	>45	0	<1	1
Copper	ppm	ASTM D5185m	>85	7	6	6
Tin	ppm	ASTM D5185m	>4	1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

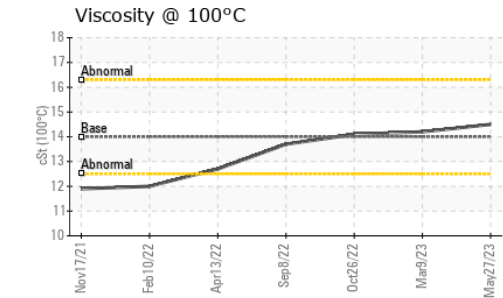
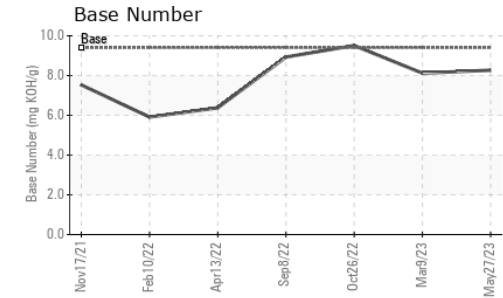
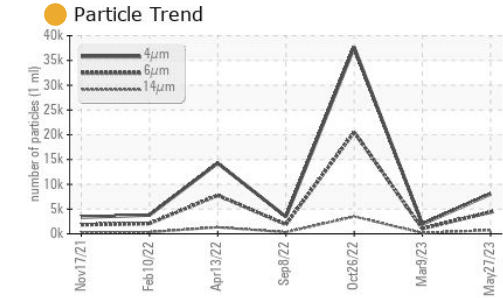
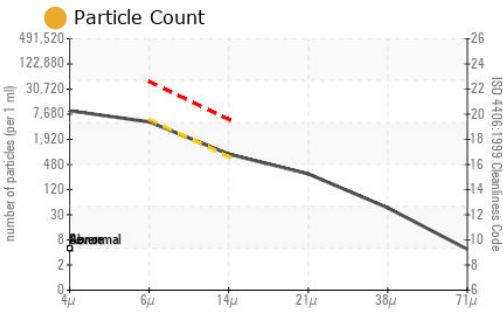
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>30	9	11	6
Potassium	ppm	ASTM D5185m	>20	57	57	48
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	0.7	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.1	10.9	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	23.5	23.5
Particles >4µm		ASTM D7647		8056	1940	37676
Particles >6µm		ASTM D7647	>5000	4389	1057	▲ 20524
Particles >14µm		ASTM D7647	>640	747	180	▲ 3493
Particles >21µm		ASTM D7647	>160	252	61	▲ 1177
Particles >38µm		ASTM D7647	>40	39	9	▲ 182
Particles >71µm		ASTM D7647	>10	4	1	● 19
Oil Cleanliness		ISO 4406 (c)	>19/16	19/17	17/15	▲ 22/19
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		3	<1	0
Boron	ppm	ASTM D5185m	0	10	9	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	57	59	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	920	1021	917
Calcium	ppm	ASTM D5185m		1515	1598	1248
Phosphorus	ppm	ASTM D5185m		990	1079	1000
Zinc	ppm	ASTM D5185m		1216	1371	1233
Sulfur	ppm	ASTM D5185m		3792	4217	4081
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.7	20.9	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.27	8.12	9.51
Visc @ 100°C	cSt	ASTM D445	14	14.5	14.2	14.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011928
Lab Number : 05871081
Unique Number : 10510865
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)

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F: