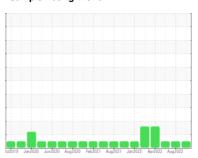


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



PETERBILT 20

Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (48 QTS)

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. The amount and size of particulates present in the system are acceptable.

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.

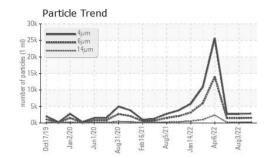
TS)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0006550	KL0006369	KL0006367
Sample Date		Client Info		22 Sep 2022	03 Aug 2022	09 Jun 2022
Machine Age	mls	Client Info		520208	212230	202659
Oil Age	mls	Client Info		20000	30000	30000
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	18	13	54
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	19	12	24
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	2	5
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	4	6
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	61	58	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	949	901	912
Calcium	ppm	ASTM D5185m		1209	1156	1301
Phosphorus	ppm	ASTM D5185m		990	986	987
Zinc	ppm	ASTM D5185m		1199	1179	1197
Sulfur	ppm	ASTM D5185m		4483	3851	3368
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	6
Sodium	ppm	ASTM D5185m		0	3	3
Potassium	ppm	ASTM D5185m	>20	37	24	53
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.7
Nitration	Abs/cm	*ASTM D7624		9.2	8.5	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	20.4	22.4

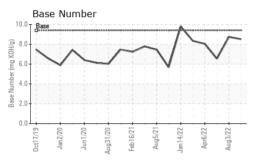


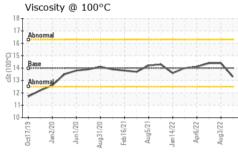
OIL ANALYSIS REPORT

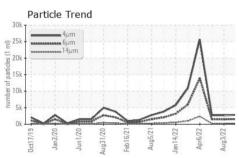
Oxidation

Visc @ 100°C









FLUID CLEANLINESS	method				history2
Particles >4µm	ASTM D7647		2845	2666	2695
Particles >6µm	ASTM D7647	>5000	1550	1453	1468
Particles >14µm	ASTM D7647	>640	264	247	250
Particles >21μm	ASTM D7647	>160	89	83	84
Particles >38µm	ASTM D7647	>40	14	13	13
Particles >71µm	ASTM D7647	>10	1	1	1
Oil Cleanliness	ISO 4406 (c)	>19/16	18/15	18/15	18/15
FLUID DECDADATION	ام مالم مما	lineit/leeee		المراسمة مناط	0، سواواوا

18.3

13.3

16.2

14.4

19.6

14.4

Abs/.1mm *ASTM D7414 >25

ASTM D445

- - Normala - - (DNI) - - - I/OU/- AOTM DOOGG O A

cSt

Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.52	8.74	6.55
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
ELLID PROPERT	TIES	mothod	limit/baco	current	hictory1	hictory?

GRAPHS	
Ferrous Alloys	Particle Count
oo iron	491,520
0 - chromium	122,880
20 - Common Dickel	30,720
73 72 72 72 72 72 72 72 72 72 72 72 72 72	₹ 7,680-
Oct17/19 Jan2/20 Jun1/20 Aug31/20 Feb16/21 Aug5/21 Apr6/22	7,680 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
Non-ferrous Metals	-16 -16
5 copper 1	120-
0 lead tin	
0 martine	
Oct17/19 Jan2/20 Jun1/20 Aug31/20 Feb16/21 Aug5/21 Apr6/22	2 - 2 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -
Viscosity @ 100°C	¾μ 6μ 14μ 21μ 38μ 71μ Base Number
Abnormal	B 10.0 Base
Base	Base Number Base Number Base Number Base Number Base Number Base Number
4 Base Abnormal	
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Oct17/19 Jan2/20 Jun1/20 Aug31/20 Aug5/21 Aug5/21 Apr6/22	Ba Oct17/19 Jan2/20 Jun1/20 Aug5/21 Aug5/22 Aug3/22
O. J. A.	A D D A A A A A A A A A A A A A A A A A





Laboratory Sample No. Lab Number : 05658690 Unique Number: 10163259

: KL0006550

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 05 Oct 2022 : 06 Oct 2022 : 07 Oct 2022 - Don Baldridge **BERRINGTON CUSTOM HAY**

PO BOX 540 WELLINGTON, NV US 89444

T: (775)465-2264

Page 2 of 2

F:

Contact: REBECCA BERRINGTON berringtoncustomhay@gmail.com

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.

Test Package : MOB 2 (Additional Tests: PrtCount)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)