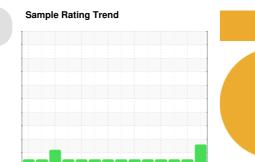


## **OIL ANALYSIS REPORT**



ISO

00 SUPER15W40 (48 Q	rs)		Oct2019 Ja	n2020 Jun2020 Aug	2020 Feb2021 Aug2021	Jan 2022	
	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
commended at this time. vice interval to monitor. are normal.	Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	mls mls	Client Info Client Info Client Info Client Info		KL0006365 08 Mar 2022 184000 23000 Not Changd ATTENTION	KL0006363 14 Jan 2022 171000 10000 Not Changd NORMAL	KL0006370 11 Nov 2021 161366 30000 Changed NORMAL
unt of particulates present	CONTAMINATION	J	method	limit/base	current	history1	history2
at there is suitable oil. The condition of the ervice.	Fuel Water Glycol		WC Method WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
	WEAR METALS		method	limit/base	current	history1	history2
	Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Antimony Vanadium Cadmium	ppm   ppm   ppm   ppm   ppm   ppm   ppm   ppm   ppm   ppm	ASTM D5185m	>20 >4 >3 >20 >40 >330	38 <1 <1 0 <1 18 <1 3 <1 3 <1  0 0 0 2 0	22 <1 0 <1 <1 19 <1 2 <1 0 0 0 0 history1	39 <1 0 <1 20 1 6 <1 0 0 0 0 0 history2
	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0	8 0 64 <1 926 1278	9 0 63 <1 847 1175	71 0 114 <1 602 1513
	Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		920 992 2804	924 1144 3301	721 808 2590
	CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m		current 7 2 39	history1 5 1 31	history2 9 2 47
	INFRA-RED		method	limit/base	current	history1	history2
	Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20	0.5 8.8 20.2	0.3 7.6 21.3	0.6 9.8 24.1

# PETERBILT 20

Component **Diesel Engine** 

#### Fluid MOBIL DELVAC 1300 SUPER15W40 (48 OTS)

### Recommendation

No corrective action is reco Resample at the next service

#### Wear

All component wear rates a

### Contamination

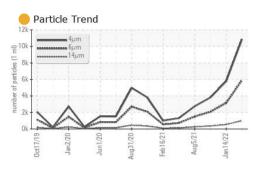
There is a moderate amour in the oil.

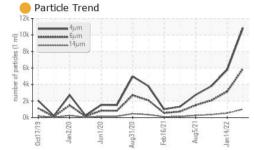
#### Fluid Condition

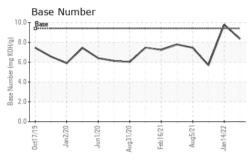
The BN result indicates that alkalinity remaining in the o oil is suitable for further ser

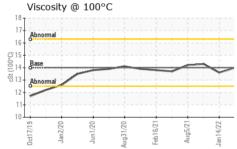


# **OIL ANALYSIS REPORT**



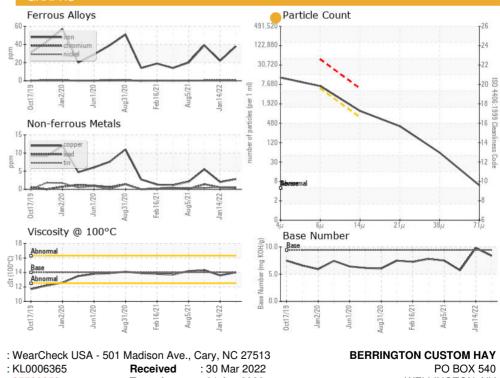


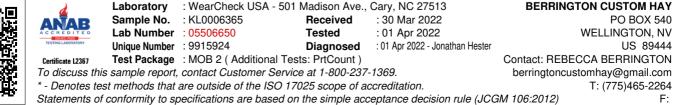




FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		10848	5772	3819
Particles >6µm		ASTM D7647	>5000	5910	3144	2081
Particles >14µm		ASTM D7647	>640	1006	535	354
Particles >21µm		ASTM D7647	>160	339	180	119
Particles >38µm		ASTM D7647	>40	52	28	18
Particles >71µm		ASTM D7647	>10	5	3	2
Oil Cleanliness		ISO 4406 (c)	>19/16	20/17	19/16	18/16
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	17.2	23.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.35	9.79	5.69
VISUAL		method	limit/base	current	history1	history2
				Carront		,, <u>,</u>
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
White Metal Yellow Metal	scalar scalar	*Visual *Visual	NONE NONE			
				NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE NONE	NONE	NONE
Yellow Metal Precipitate	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
Yellow Metal Precipitate Silt	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE
Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE
Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NORML	NONE NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE NORML	NONE NONE NONE NONE NONE NORML
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML NEG	NONE NONE NONE NONE NONE NORML NORML NEG	NONE NONE NONE NONE NONE NORML NORML NEG







Contact/Location: REBECCA BERRINGTON - BERWELKL