

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL SEVERE ABNORMAL

Machine Id

PETERBILT 8464532

MOBIL DELVAC 1300 SUPER15W40 (22 QTS)	_						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend	Sample Number		Client Info		RPL0020416	RPL0016362	
that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Date		Client Info		10 May 2024	02 Dec 2023	10 May 20
	Machine Age	mls	Client Info		47144	42423	35987
	Oil Age	mls	Client Info		40708	6436	9430
	Filter Age	mls	Client Info		0	6436	9430
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Change
	Sample Status				SEVERE	SEVERE	ABNORM
WEAR	Iron	ppm	ASTM D5185m	>110	29	17	30
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>4	1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	2	<1	<1
	Aluminum	ppm	ASTM D5185m	>25	29	20	26
	Lead	ppm	ASTM D5185m	>45	1	0	<1
	Copper	ppm	ASTM D5185m	>85	19	17	54
	Tin	ppm	ASTM D5185m	>4	2	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Silicon	ppm	ASTM D5185m	>30	8	5	8
	Potassium	ppm	ASTM D5185m	>20	69	50	78
	Fuel	%	ASTM D3524	>5	8.8	4 9.6	△ 7.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624		10.9	8.3	11.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.0	23.3	24.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
				NORML	NORML	NORML	NORM
	Appearance	scalar	*Visual			NIGELII	NORN
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	
	Appearance	scalar			NORML NEG	NORML NEG	NEG
FLUID CONDITION	Appearance Odor	scalar	*Visual	NORML			
	Appearance Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NEG	NEG	NEG
The BN result indicates that there is suitable alkalinity remaining in the	Appearance Odor Emulsified Water Sodium	scalar scalar ppm	*Visual *Visual ASTM D5185m	NORML >0.2	NEG 2	NEG 0	NEG 0
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Appearance Odor Emulsified Water Sodium Boron	scalar scalar ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m	NORML >0.2 0 0 0	NEG 2 2	NEG 0 2	NEG 0 9
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 0	NEG 2 2 2 <1	NEG 0 2 0	0 9 0
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 0 0	NEG 2 2 <1 52	NEG 0 2 0 53	0 9 0 43
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 0 0	NEG 2 2 <1 52 1	NEG 0 2 0 53 <1	0 9 0 43 <1
The BN result indicates that there is suitable alkalinity remaining in the bil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 0 0 0 0	NEG 2 2 <1 52 1 760	NEG 0 2 0 53 <1 821	0 9 0 43 <1 664
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m	NORML >0.2 0 0 0 0	NEG 2 2 <1 52 1 760 1005	NEG 0 2 0 53 <1 821 987 823 1066	0 9 0 43 <1 664 1231 715 986
The BN result indicates that there is suitable alkalinity remaining in the bil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	*Visual *Visual ASTM D5185m	NORML >0.2 0 0 0 0	NEG 2 2 <1 52 1 760 1005 737 1003 2607	NEG 0 2 0 53 <1 821 987 823	NEG 0 9 0 43 <1 664 1231 715 986 2998
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	*Visual *Visual ASTM D5185m	NORML >0.2 0 0 0 0	NEG 2 2 <1 52 1 760 1005 737 1003	NEG 0 2 0 53 <1 821 987 823 1066	0 9 0 43 <1 664 1231 715 986

Base Number (BN) mg KOH/g ASTM D2896 9.4

ASTM D445 14

Visc @ 100°C cSt

5.8

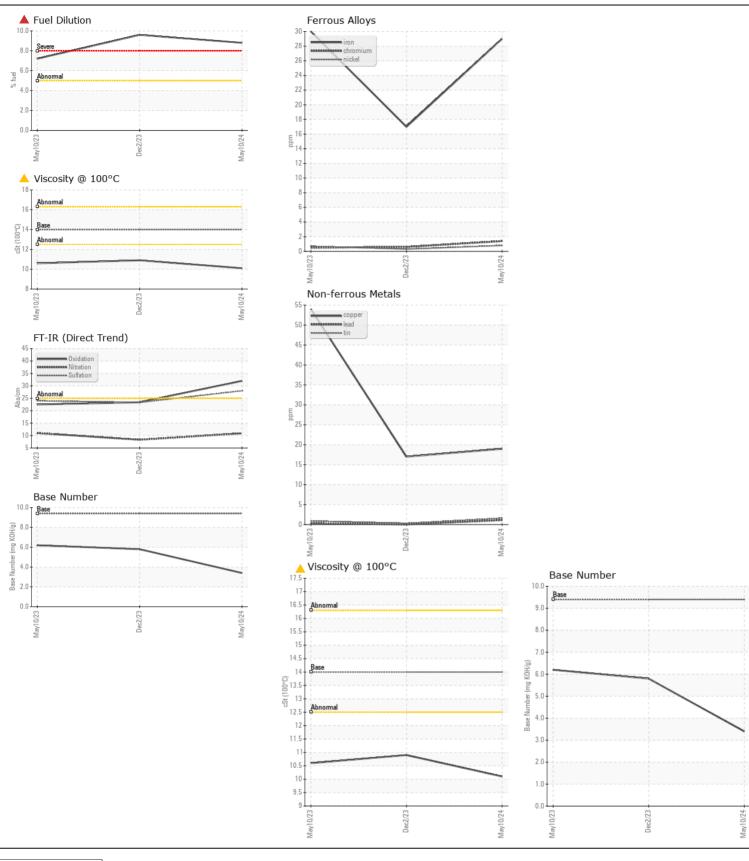
10.9

3.4

10.1

6.2

10.6





Certificate L2367

Laboratory Sample No. Unique Number : 11048655

Lab Number : 06191903

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RPL0020416

Received **Tested**

: 28 May 2024 : 29 May 2024 Diagnosed

: 30 May 2024 - Sean Felton Test Package : FLEET (Additional Tests: PercentFuel)

RTL PACLEASE - 7006 - Pico Rivera 7837 Telegraph Rd

Pico Rivera, CA US 90660

Contact: GERARDO CARROLA carrolag@rushenterprises.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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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