

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



PETERBILT V62

Component

Diesel Engine

PETRO CANADA DURON EXTRA 15W40 (

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

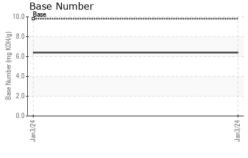
Fluid Condition

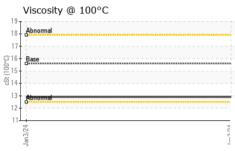
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info PCA0112138 Sample Date Client Info 03 Jan 2024							'
Sample Number Client Info PCA0112138 Sample Date Client Info 03 Jan 2024	I GAL)				Jan 2024		
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 234566 Dil Age mls Client Info 234566 Dil Changed Client Info Changed Sample Status NORMAL CONTAMINATION method Imit/base current history1 history1 Fuel	Sample Number		Client Info		PCA0112138		
Dil Age	Sample Date		Client Info		03 Jan 2024		
Contact Cont	Machine Age	mls	Client Info		377506		
CONTAMINATION method limit/base current history1 history2 history3 history3 history3 history4 history4 history4 history5 histo	Oil Age	mls	Client Info		23456		
CONTAMINATION method limit/base current history1 history2 Nature WC Method >5 <1.0			Client Info				
Valer	Sample Status				NORMAL		
Water WC Method >0.2 NEG Glycol WC Method Iimit/base current history1 history1 WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >20 <1	CONTAMINATI	ON	method	limit/base	current	history1	history2
WEAR METALS	⁼ uel		WC Method	>5	<1.0		
WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >100 30	Nater		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
Chromium	WEAR METALS	S	method	limit/base	current	history1	history2
ASTM D5185m SATM D5185m	ron	ppm	ASTM D5185m	>100	30		
Silver	Chromium	ppm	ASTM D5185m	>20	<1		
Silver	Nickel	ppm	ASTM D5185m	>4	0		
Astronometric Astronometri	- itanium	ppm	ASTM D5185m		3		
December December	Silver	ppm	ASTM D5185m	>3	0		
Description	Aluminum	ppm	ASTM D5185m	>20	4		
Academium	_ead	ppm	ASTM D5185m	>40	<1		
Anadium	Copper	ppm	ASTM D5185m	>330	2		
ADDITIVES	- in	ppm	ASTM D5185m	>15	<1		
ADDITIVES	/anadium	ppm	ASTM D5185m		<1		
Soron ppm ASTM D5185m 0 0 0 0 0 0 0 0 0	Cadmium	ppm	ASTM D5185m		0		
Sarium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 60 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 1010 987 Calcium ppm ASTM D5185m 1070 1216 Phosphorus ppm ASTM D5185m 1150 1077 Zinc ppm ASTM D5185m 1270 1266 Sulfur ppm ASTM D5185m 2150 2983 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m 25 8 Godium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m 2 <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <td>8</td> <td></td> <td></td>	Boron	ppm	ASTM D5185m	0	8		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 1010 987 Calcium ppm ASTM D5185m 1070 1216 Phosphorus ppm ASTM D5185m 1270 1266 Zinc ppm ASTM D5185m 2150 2983 Sulfur ppm ASTM D5185m 2150 2983 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >25 8 Godium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m 20 <1	Barium	ppm	ASTM D5185m	0	0		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 1010 987 Calcium ppm ASTM D5185m 1070 1216 Phosphorus ppm ASTM D5185m 1150 1077 Zinc ppm ASTM D5185m 1270 1266 Sulfur ppm ASTM D5185m 2150 2983 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >25 8 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m 20 <1	Molybdenum	ppm	ASTM D5185m	60	60		
Magnesium ppm ASTM D5185m 1010 987 Calcium ppm ASTM D5185m 1070 1216 Phosphorus ppm ASTM D5185m 1150 1077 Zinc ppm ASTM D5185m 1270 1266 Sulfur ppm ASTM D5185m 2150 2983 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 8 Potassium ppm ASTM D5185m >20 <1	-		ASTM D5185m	0	<1		
Calcium ppm ASTM D5185m 1070 1216 Phosphorus ppm ASTM D5185m 1150 1077 Zinc ppm ASTM D5185m 1270 1266 Sulfur ppm ASTM D5185m 2150 2983 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >25 8 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 <1	Magnesium		ASTM D5185m	1010	987		
Phosphorus	Calcium		ASTM D5185m	1070	1216		
Time	Phosphorus		ASTM D5185m	1150	1077		
Sulfur ppm ASTM D5185m 2150 2983 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >25 8 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 <1 INFRA-RED method limit/base current history1 history3 Goot % % *ASTM D7844 >3 0.5 Sulfration Abs/cm *ASTM D7624 >20 9.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8					1266		
Solicon ppm ASTM D5185m >25 8	Sulfur		ASTM D5185m	2150	2983		
Sodium	CONTAMINAN	TS _	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 <1	Silicon	ppm	ASTM D5185m	>25	8		
Potassium ppm ASTM D5185m >20 <1 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >3 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 Sulfation Abs/.1mm *ASTM D7415 >30 21.3 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 16.8	Sodium		ASTM D5185m		2		
Soot %	Potassium	ppm	ASTM D5185m	>20	<1		
Nitration Abs/cm *ASTM D7624 >20 9.7 Sulfation Abs/.1mm *ASTM D7415 >30 21.3 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 16.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.3 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 16.8	Soot %	%	*ASTM D7844	>3	0.5		
Sulfation Abs/.1mm *ASTM D7415 >30 21.3 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 16.8	Nitration	Abs/cm	*ASTM D7624	>20	9.7		
Oxidation	Sulfation		*ASTM D7415	>30	21.3		
	FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8		
	Base Number (BN)	mg KOH/g		9.8	6.4		



OIL ANALYSIS REPORT

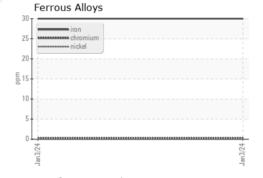


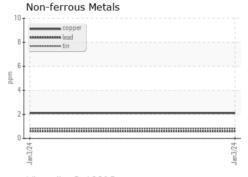


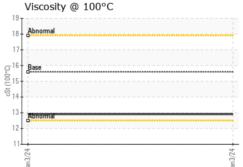
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		

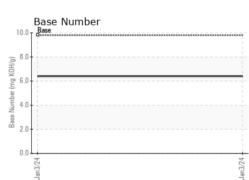
FLUID PROP	ERHES	method	limit/base		nistory1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	12.9		

GRAPHS













Certificate L2367

Laboratory Sample No.

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

Lab Number : 06086962 Unique Number : 10874407 Test Package : FLEET

: PCA0112138

Received : 13 Feb 2024 Tested Diagnosed

: 13 Feb 2024 : 13 Feb 2024 - Wes Davis

VOYAGER TRUCKING CORP 451 FRELINGHUYSEN AVENUE

NEWARK, NJ US 07114

Contact: DAVID LOPEZ david@voyagertrucking.com T:

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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