

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

PETERBILT V093

Component

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GAL)

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

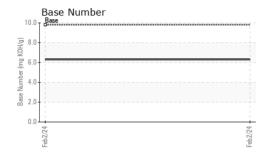
Fluid Condition

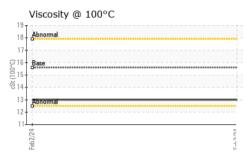
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info 02 Feb 2024								
Cample Number Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info QFeb 2024 Client Info	L)			Feb.2024				
Cample Date Client Info 02 Feb 2024	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Cample Date Client Info 02 Feb 2024	Sample Number		Client Info		PCA0112129			
Dit Age	Sample Date		Client Info		02 Feb 2024			
Contamped Client Info Changed Normal Contamped Sample Status Contamped Normal Contamped Contam	Machine Age	mls	Client Info		352557			
CONTAMINATION method limit/base current history1 history2 limit/base current history1 history2 limit/base current history2 limit/base current limit/bas	Oil Age	mls	Client Info		24782			
CONTAMINATION method limit/base current history1 history2	Oil Changed		Client Info		Changed			
Valer	Sample Status				NORMAL			
Water	CONTAMINAT	ION	method	limit/base	current	history1	history2	
WEAR METALS	uel		WC Method	>5	<1.0			
WEAR METALS method limit/base current history1 history2 fron ppm ASTM D5185m >110 12 chromium ppm ASTM D5185m >4 0 clickel ppm ASTM D5185m >2 0 clickel ppm ASTM D5185m >2 0 Silver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >2 1 Lead ppm ASTM D5185m >4 <1	Vater		WC Method	>0.2	NEG			
Chromium	Glycol		WC Method		NEG			
Description	WEAR METAL	_S	method	limit/base	current	history1	history2	
Strickel	ron	ppm	ASTM D5185m	>110	12			
Silver	Chromium	ppm	ASTM D5185m	>4	0			
Silver	Nickel	ppm	ASTM D5185m	>2	0			
Astrophysical Research Astrophysical Resea	- itanium	ppm	ASTM D5185m		1			
December December	Silver	ppm	ASTM D5185m	>2	0			
Act	Muminum	ppm	ASTM D5185m	>25	2			
Action	.ead	ppm	ASTM D5185m	>45	<1			
Anadium	Copper	ppm	ASTM D5185m	>85	2			
ADDITIVES	īn	ppm	ASTM D5185m	>4	<1			
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 6 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 58 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 953 Calcium ppm ASTM D5185m 1223 Phosphorus ppm ASTM D5185m 1218 Cinc ppm ASTM D5185m 2905 Sulfur ppm ASTM D5185m 2905 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 Cotassium ppm ASTM D5185m >20<	/anadium	ppm	ASTM D5185m		<1			
Soron ppm ASTM D5185m 0	Cadmium	ppm	ASTM D5185m		0			
Description	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum ppm ASTM D5185m 58 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 953 Calcium ppm ASTM D5185m 1223 Phosphorus ppm ASTM D5185m 1049 Zinc ppm ASTM D5185m 2905 Sulfur ppm ASTM D5185m 2905 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 Godium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Sodium ppm ASTM D5185m >20 0 Sodium ppm	Boron	ppm	ASTM D5185m		6			
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 953 Calcium ppm ASTM D5185m 1223 Phosphorus ppm ASTM D5185m 1049 Cinc ppm ASTM D5185m 2905 Sulfur ppm ASTM D5185m 2905 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 Godium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Rodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Rodium	Barium	ppm	ASTM D5185m		0			
Magnesium ppm ASTM D5185m 953 Calcium ppm ASTM D5185m 1223 Phosphorus ppm ASTM D5185m 1049 Cinc ppm ASTM D5185m 2905 Sulfur ppm ASTM D5185m 2905 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 Potassium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0.5 Sulfration Abs/:nm *ASTM D7415 >30 20.4 FLUID D	Nolybdenum	ppm	ASTM D5185m		58			
Calcium ppm ASTM D5185m 1223 Phosphorus ppm ASTM D5185m 1049 Zinc ppm ASTM D5185m 1218 Sulfur ppm ASTM D5185m 2905 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 Sodium ppm ASTM D5185m >1 Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 Sulfation Abs/:nm *ASTM D7415 >30 20.4 FLUID DEGRADATION method limit/base current history1 history2 <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td></td> <td></td>	Manganese	ppm	ASTM D5185m		0			
December December	/lagnesium	ppm	ASTM D5185m		953			
Phosphorus ppm ASTM D5185m 1049 Zinc ppm ASTM D5185m 1218 Sulfur ppm ASTM D5185m 2905 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >30 6 Solicon ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0.5 Sulfation Abs/cm *ASTM D7415 >30 20.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.2 <th< td=""><td>Calcium</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>1223</td><td></td><td></td></th<>	Calcium	ppm	ASTM D5185m		1223			
Time	Phosphorus		ASTM D5185m		1049			
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 Sodium ppm ASTM D5185m <1	Zinc		ASTM D5185m		1218			
Solicon ppm ASTM D5185m >30 6	Sulfur		ASTM D5185m		2905			
Sodium	CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Boot % *ASTM D7844 >3 0.5 Sultration Abs/cm *ASTM D7624 >20 8.7 Sulfation Abs/.1mm *ASTM D7415 >30 20.4 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 16.2	Silicon	ppm	ASTM D5185m	>30	6			
INFRA-RED	Sodium	ppm	ASTM D5185m		<1			
Soot %	Potassium	ppm	ASTM D5185m	>20	0			
Nitration	INFRA-RED		method	limit/base	current	history1	history2	
Sulfation Abs/.1mm *ASTM D7415 >30 20.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.2	Soot %	%	*ASTM D7844	>3	0.5			
FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 16.2	Nitration	Abs/cm	*ASTM D7624	>20	8.7			
Oxidation Abs/.1mm *ASTM D7414 >25 16.2	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4			
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2			
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.3			



OIL ANALYSIS REPORT

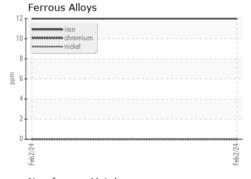


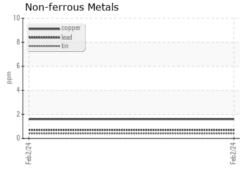


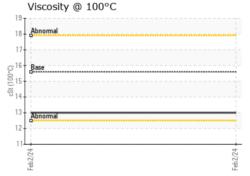
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

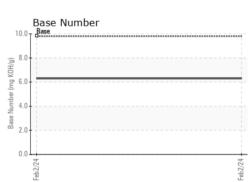
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	13.0		

GRAPHS











Certificate L2367

Laboratory Sample No.

: PCA0112129 Lab Number : 06086953 Unique Number : 10874398 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Feb 2024 **Tested** : 13 Feb 2024

Diagnosed : 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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