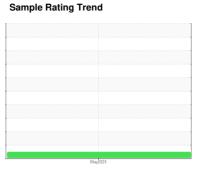


OIL ANALYSIS REPORT



NORMAL



Machine Id 338716

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- G

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

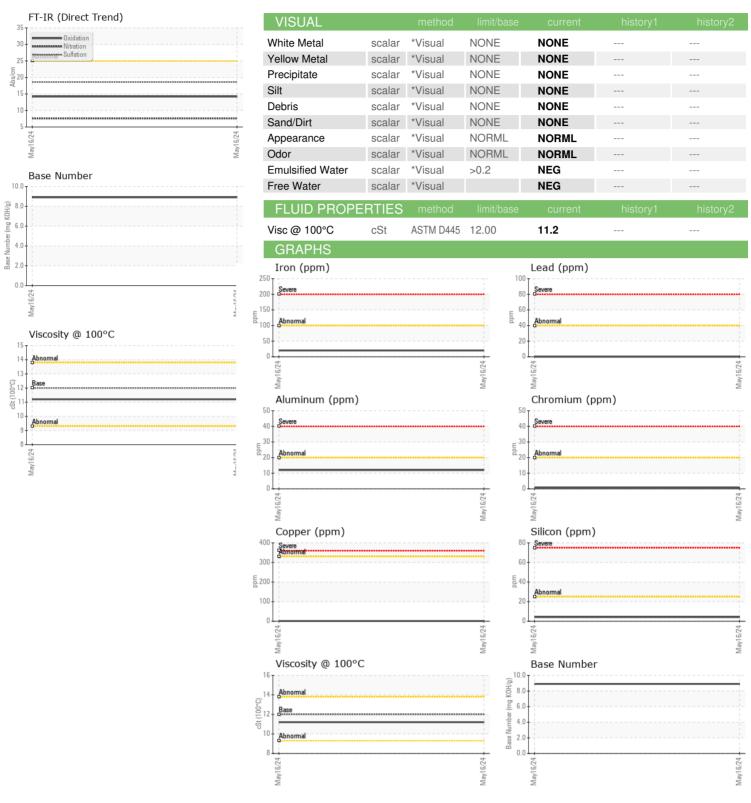
Fluid Condition

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

Client Info	TS)				May 2024		
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 0 47380 Dil Age mls Client Info 0 Dil Changed Client Info 0 Sample Status NORMAL CONTAMINATION method limit/base current history1 history2 Fuel	Sample Number		Client Info		PCA0123286		
Oil Changed	Sample Date		Client Info		16 May 2024		
Colichanged Client Info N/A	Machine Age	mls	Client Info		47380		
CONTAMINATION method limit/base current history1 history2 water WC Method >5 <1.0 Water WC Method >0.2 NEG Glycol WC Method NEG WEAR METALS method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Nickel ppm ASTM D5185m >100 20 Chromium ppm ASTM D5185m >20 <1 Nickel ppm ASTM D5185m >4 0 Nickel ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >20 12 Lead ppm ASTM D5185m >30 1 Lead ppm ASTM D5185m >30 1 Copper ppm ASTM D5185m >30 1 Cadmium ppm ASTM D5185m >30 1 Cadmium ppm ASTM D5185m >15 1 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 50 61 Magnesium ppm ASTM D5185m 50 61 Magnesium ppm ASTM D5185m 950 930 Calcium ppm ASTM D5185m 950 930 Calcium ppm ASTM D5185m 995 1081 CONTAMINANTS method limit/base current history1 history2 Sodium ppm ASTM D5185m >25 4 Nickel ppm ASTM D5185m >20 14 Contamination ppm ASTM D5185m >20 76 Contamination Abs/imm ASTM D7818 >30 18.6 Nickel ppm ASTM D5185m >20 76 DTFRA-RED method limit/base current history1 history2 limit/b	Oil Age	mls	Client Info		0		
CONTAMINATION method limit/base current history1 history2	Oil Changed		Client Info		N/A		
Fuel	Sample Status				NORMAL		
Water Glycol WC Method >0.2 NEG	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0		
WEAR METALS	Water		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
Chromium	WEAR METAL	_S	method	limit/base	current	history1	history2
Nickel					-		
STIM D5185m STM D5185m ST		ppm					
Silver	Nickel	ppm	ASTM D5185m	>4	0		
Astroper	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver	ppm	ASTM D5185m	>3	0		
Copper	Aluminum	ppm	ASTM D5185m	>20	12		
Trin	_ead	ppm	ASTM D5185m	>40	0		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 0 Wolybdenum ppm ASTM D5185m 50 61 Manganese ppm ASTM D5185m 0 <-1 Magnesium ppm ASTM D5185m 950 930 Magnesium ppm ASTM D5185m 950 930 Calcium ppm ASTM D5185m 995 1081 Phosphorus ppm ASTM D5185m 2600 3647 Cilicon ppm ASTM D5185m >25 4 <t< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185m</td><td>>330</td><td>1</td><td></td><td></td></t<>	Copper	ppm	ASTM D5185m	>330	1		
ADDITIVES	Tin	ppm	ASTM D5185m	>15	1		
ADDITIVES method limit/base current history1 history2	Vanadium	ppm	ASTM D5185m		0		
Barium	Cadmium	ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 61 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	2	7		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 950 930 Calcium ppm ASTM D5185m 1050 1137 Phosphorus ppm ASTM D5185m 995 1081 Zinc ppm ASTM D5185m 1180 1262 Sulfur ppm ASTM D5185m 2600 3647 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >20 14 Potassium ppm ASTM D5185m >20 14 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624	Barium	ppm	ASTM D5185m	0	0		
Magnesium ppm ASTM D5185m 950 930 Calcium ppm ASTM D5185m 1050 1137 Phosphorus ppm ASTM D5185m 995 1081 Zinc ppm ASTM D5185m 1180 1262 Sulfur ppm ASTM D5185m 2600 3647 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >20 14 Potassium ppm ASTM D5185m >20 14 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Sulfation Abs/.1mm *ASTM D7415 <td>Molybdenum</td> <td>ppm</td> <td>ASTM D5185m</td> <td>50</td> <td>61</td> <td></td> <td></td>	Molybdenum	ppm	ASTM D5185m	50	61		
Calcium ppm ASTM D5185m 1050 1137 Phosphorus ppm ASTM D5185m 995 1081 Zinc ppm ASTM D5185m 1180 1262 Sulfur ppm ASTM D5185m 2600 3647 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >20 14 Potassium ppm ASTM D5185m >20 14 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.6 FLUID DEGRADATION *ASTM D7414 <	Manganese	ppm	ASTM D5185m	0	<1		
Phosphorus ppm ASTM D5185m 995 1081 Zinc ppm ASTM D5185m 1180 1262 Sulfur ppm ASTM D5185m 2600 3647 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >20 14 Potassium ppm ASTM D5185m >20 14 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM	Magnesium	ppm	ASTM D5185m	950	930		
Zinc ppm ASTM D5185m 1180 1262 Sulfur ppm ASTM D5185m 2600 3647 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m <1 Potassium ppm ASTM D5185m >20 14 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.6 Sulfation Abs/.1mm *ASTM D7415 >30 18.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.2	Calcium	ppm	ASTM D5185m	1050	1137		
Sulfur ppm ASTM D5185m 2600 3647 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >20 14 Potassium ppm ASTM D5185m >20 14 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Sulfation Abs/.1mm *ASTM D7624 >20 7.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.2	Phosphorus	ppm	ASTM D5185m	995	1081		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m <1	Zinc	ppm	ASTM D5185m	1180	1262		
Solition ppm ASTM D5185m >25 4	Sulfur	ppm	ASTM D5185m	2600	3647		
Sodium	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 14 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.6 Sulfation Abs/.1mm *ASTM D7415 >30 18.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.2	Silicon	ppm	ASTM D5185m	>25	4		
INFRA-RED	Sodium	ppm	ASTM D5185m		<1		
Soot % % *ASTM D7844 >3 0.3 Nitration Abs/cm *ASTM D7624 >20 7.6 Sulfation Abs/.1mm *ASTM D7415 >30 18.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.2	Potassium	ppm	ASTM D5185m	>20	14		
Nitration Abs/cm *ASTM D7624 >20 7.6 Sulfation Abs/.1mm *ASTM D7415 >30 18.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.2	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.2	Soot %	%	*ASTM D7844	>3	0.3		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.2	Nitration	Abs/cm	*ASTM D7624	>20	7.6		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2		
	Base Number (BN)	mg KOH/g			8.9		



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Unique Number : 11045637

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0123286 Lab Number : 06188885

Received **Tested**

: 24 May 2024 Diagnosed : 24 May 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

: 23 May 2024

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. **MILLER TRUCK LEASING #117**

2666 LEISCZS BRIDGE RD LEESPORT, PA US 19533

Contact: JAMEY RITZ jritz@millertransgroup.com

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

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