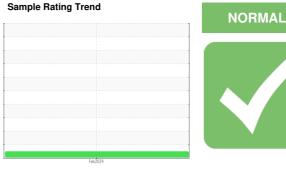


OIL ANALYSIS REPORT

(30559Z) Walgreens - Tractor [Walgreens - Tractor] 136A62529

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



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

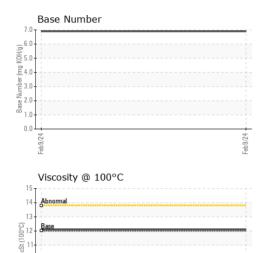
Fluid Condition

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

Sample Date Client Info 289265	áAL)				Feb2024		
Sample Date Client Info 289265	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age mis Client Info 289265	Sample Number		Client Info		PCA0106584		
Oil Age mls Client Info 41265	Sample Date		Client Info		09 Feb 2024		
Contamped Client Info Normal Changed Changed Contample Status Contample Sta	Machine Age	mls	Client Info		289265		
CONTAMINATION method militibase current history1 history2	Oil Age	mls	Client Info		41265		
CONTAMINATION method limit/base current history1 history2	Oil Changed		Client Info		Changed		
Fuel	Sample Status				NORMAL		
Water WC Method So.2 NEG So.2 NEG So.3 WC Method NEG So.3 WC Method NEG So.3 WC Method So.2 NEG So.3 So.3	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	Iron	ppm	ASTM D5185m	>110	22		
Nickel	Chromium		ASTM D5185m	>4	<1		
Silver	Nickel		ASTM D5185m	>2	0		
Silver	Titanium		ASTM D5185m		<1		
Aluminum	Silver		ASTM D5185m	>2	0		
Copper ppm ASTM D5185m >85 9 Tin ppm ASTM D5185m >4 <1	Aluminum	ppm	ASTM D5185m	>25	7		
Copper ppm ASTM D5185m >85 9 Tin ppm ASTM D5185m >4 <1	Lead	ppm	ASTM D5185m	>45	<1		
State	Copper		ASTM D5185m	>85	9		
ADDITIVES		ppm	ASTM D5185m	>4	<1		
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1		
Boron ppm ASTM D5185m 2 10 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 50 52 Magnesium ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 950 876 ASTM D5185m 950 876 Magnesium ppm ASTM D5185m 1050 1253 ASTM D5185m 995 993 Magnesium ppm ASTM D5185m 995 993 Magnesium ppm ASTM D5185m 1180 1261 Magnesium ppm ASTM D5185m 2600 2768 Magnesium ppm ASTM D5185m 2600 2768 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 7 Magnesium ppm ASTM D5185m 20 0	Cadmium	ppm	ASTM D5185m		0		
Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 50 52 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 950 876 Calcium ppm ASTM D5185m 1050 1253 Phosphorus ppm ASTM D5185m 995 993 Zinc ppm ASTM D5185m 2600 2768 Sulfur ppm ASTM D5185m 2600 2768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m >20 7 INFRA-RED	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 52 Magnesium ppm ASTM D5185m 0 0 Calcium ppm ASTM D5185m 950 876 Calcium ppm ASTM D5185m 1050 1253 Phosphorus ppm ASTM D5185m 1050 1261 Zinc ppm ASTM D5185m 1180 1261 Sulfur ppm ASTM D5185m 2600 2768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m 20 7 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td>2</td> <td>10</td> <td></td> <td></td>	Boron	ppm	ASTM D5185m	2	10		
Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 950 876 Calcium ppm ASTM D5185m 1050 1253 Phosphorus ppm ASTM D5185m 995 993 Zinc ppm ASTM D5185m 1180 1261 Sulfur ppm ASTM D5185m 2600 2768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 <	Barium	ppm	ASTM D5185m	0	0		
Magnesium ppm ASTM D5185m 950 876 Calcium ppm ASTM D5185m 1050 1253 Phosphorus ppm ASTM D5185m 995 993 Zinc ppm ASTM D5185m 1180 1261 Sulfur ppm ASTM D5185m 2600 2768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Sulfation Abs/.1mm *ASTM D7415 >30 21.2<	Molybdenum	ppm	ASTM D5185m	50	52		
Calcium ppm ASTM D5185m 1050 1253 Phosphorus ppm ASTM D5185m 995 993 Zinc ppm ASTM D5185m 1180 1261 Sulfur ppm ASTM D5185m 2600 2768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION *ASTM D7414 >25	Manganese	ppm	ASTM D5185m	0	0		
Phosphorus ppm ASTM D5185m 995 993 Zinc ppm ASTM D5185m 1180 1261 Sulfur ppm ASTM D5185m 2600 2768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION *ASTM D7414 >25 <	Magnesium	ppm	ASTM D5185m	950	876		
Zinc	Calcium	ppm	ASTM D5185m	1050	1253		
Sulfur ppm ASTM D5185m 2600 2768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Phosphorus	ppm	ASTM D5185m	995	993		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Zinc	ppm	ASTM D5185m	1180	1261		
Silicon ppm ASTM D5185m >30 7 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Sulfur	ppm	ASTM D5185m	2600	2768		
Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 7 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Silicon	ppm	ASTM D5185m	>30	7		
INFRA-RED	Sodium	ppm	ASTM D5185m		2		
Soot % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Potassium	ppm	ASTM D5185m	>20	7		
Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7615 >30 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Soot %	%	*ASTM D7844	>3	0.7		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9		
	Base Number (BN)		ASTM D2896				



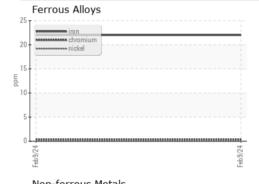
OIL ANALYSIS REPORT



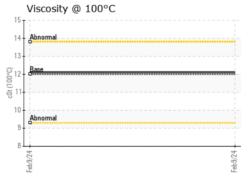
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

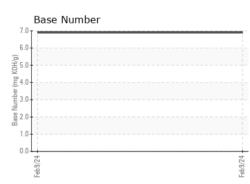
FLUID PROPE	ERITES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	12.00	12.1		

GRAPHS



	copp	er i			
	tin				
6					
4					
2					
0				 	
Feb 9/24					







Laboratory Sample No.

Lab Number : 06093516 Unique Number: 10886369 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0106584

Received **Tested** Diagnosed

: 19 Feb 2024 : 20 Feb 2024

: 20 Feb 2024 - Wes Davis

Transervice - Shop 1369 - Berkeley-Waxahachie 710 Ovilla Road

Waxahachie, TX US 75167 Contact: Robert Beal

rbeal@transervice.com

Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (972)923-9928

* - 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)

F: (972)923-9919 Contact/Location: Robert Beal - TSV1369