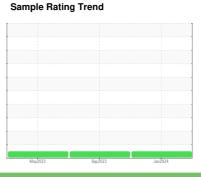


OIL ANALYSIS REPORT

(89607X) Walgreens - Tractor [Walgreens - Tractor] 136A67223

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

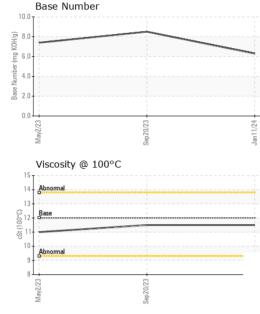
Fluid Condition

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 11 Jan 2024 20 Sep 2023 02 May 2023 Machine Age mis Client Info 616596 587120 556093 50000				y2023	Sep2023 Jan20	£T	
Sample Date Client Info 11 Jan 2024 20 Sep 2023 02 May 2023 Machine Age mis Client Info 616596 587120 556093 50000	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 616596 587120 556093	Sample Number		Client Info		PCA0105871	PCA0105897	PCA0091478
Oil Age mls Client Info 25000 556093 50000 Oil Changed Sample Status Client Info Oil Added N/A Changed Changed NA Changed Changed NA Changed NA Changed Changed NA Changed Changed NA Changed NA Changed NA Changed Chan	Sample Date		Client Info		11 Jan 2024	20 Sep 2023	02 May 2023
Oil Changed Sample Status Client Info Oil Added NORMAL NORMAL NORMAL NA NORMAL NORMAL Changed NORMAL NORMAL 1.0 <th< td=""><td>Machine Age</td><td>mls</td><td>Client Info</td><td></td><th>616596</th><td>587120</td><td>556093</td></th<>	Machine Age	mls	Client Info		616596	587120	556093
Oil Changed Sample Status Client Info Oil Added NORMAL NORMAL NORMAL NA NORMAL NORMAL Changed NORMAL NORMAL 1.0 <th< td=""><td>Oil Age</td><td>mls</td><td>Client Info</td><td></td><th>25000</th><td>556093</td><td>50000</td></th<>	Oil Age	mls	Client Info		25000	556093	50000
NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 history2	-		Client Info		Oil Added	N/A	Changed
Fuel						NORMAL	
Water Glycol WC Method >0.2 NEG A A Ikidot Medical Medical NEG 24 1 0 0 0 Silver ppm ASTM D5185m >25 2 2	CONTAMINA	TION	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Irron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >4 <1	WEAR META	LS	method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >4 <1 <1 0 Nickel ppm ASTM D5185m >2 0 <1 0 Titanium ppm ASTM D5185m >2 0 <0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >25 2 2 5 Lead ppm ASTM D5185m >45 0 <1 0 Copper ppm ASTM D5185m >45 0 <1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m 0 0 <1 0 Vanadium ppm ASTM D5185m 0 0 <1 0 Cadmium ppm ASTM D5185m 0 0 2 0 Barium ppm ASTM D5185m 0 0 2 0	Iron	ppm	ASTM D5185m	>110	5	4	4
Nickel	Chromium		ASTM D5185m	>4		<1	0
Titanium							
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >25 2 2 5 Lead ppm ASTM D5185m >45 0 <1 0 Copper ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m <1 0 <1 0 Vanadium ppm ASTM D5185m <1 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 0 0 2 Boron ppm ASTM D5185m 0 0 2 0 Barium ppm ASTM D5185m 0 0 2 0 Manganesium ppm ASTM D5185m 950 956 977							
Aluminum ppm ASTM D5185m >25 2 2 5 Lead ppm ASTM D5185m >45 0 <1				>2			
Lead ppm ASTM D5185m >45 0 <1 0 Copper ppm ASTM D5185m >45 2 2 6 Tin ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 2 Boron ppm ASTM D5185m 0 0 2 0 Boron ppm ASTM D5185m 0 0 2 0 Boron ppm ASTM D5185m 0 0 2 0 Boron ppm ASTM D5185m 50 55 62 64 Manganesium ppm ASTM D5185m 0 0 1 0 1 <t< td=""><td></td><td>- ' '</td><td></td><td></td><th></th><td></td><td></td></t<>		- ' '					
Copper ppm ASTM D5185m >85 2 2 6 Tin ppm ASTM D5185m >4 0 <1							
Tin		- ' '					
Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 0 0 2 Barium ppm ASTM D5185m 0 0 2 0 Molybdenum ppm ASTM D5185m 50 55 62 64 Manganese ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 950 956 977 1032 Calcium ppm ASTM D5185m 950 952 1041 1088 Zinc ppm ASTM D5185m 995 952 1041 1088 Zinc ppm ASTM D5185m 2600 2695 2999 3496 CONTAMINANTS method limit/base current history1 history							
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 0 0 2 Barium ppm ASTM D5185m 0 0 2 0 Molybdenum ppm ASTM D5185m 50 55 62 64 Manganese ppm ASTM D5185m 0 0 <1				>4			
ADDITIVES							
Boron		ppm	ASTM D5185m		U		
Barium ppm ASTM D5185m 0 0 2 0 Molybdenum ppm ASTM D5185m 50 55 62 64 Manganese ppm ASTM D5185m 0 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 55 62 64 Manganese ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 950 956 977 1032 Calcium ppm ASTM D5185m 1050 1004 1075 1198 Phosphorus ppm ASTM D5185m 995 952 1041 1088 Zinc ppm ASTM D5185m 2600 1178 1261 1338 Sulfur ppm ASTM D5185m 2600 2695 2999 3496 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m >20 1 <1 <1 <1 Potassium ppm ASTM D5185m >20 1 <1 <1 <1 Soot % % <td>Boron</td> <td>ppm</td> <td></td> <td>_</td> <th></th> <td></td> <td></td>	Boron	ppm		_			
Manganese ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 950 956 977 1032 Calcium ppm ASTM D5185m 1050 1004 1075 1198 Phosphorus ppm ASTM D5185m 995 952 1041 1088 Zinc ppm ASTM D5185m 1180 1178 1261 1338 Sulfur ppm ASTM D5185m 2600 2695 2999 3496 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m >20 1 <1 <1 Potassium ppm ASTM D5185m >20 1 <1 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 <th< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185m</td><td>0</td><th>0</th><td>2</td><td>0</td></th<>	Barium	ppm	ASTM D5185m	0	0	2	0
Magnesium ppm ASTM D5185m 950 956 977 1032 Calcium ppm ASTM D5185m 1050 1004 1075 1198 Phosphorus ppm ASTM D5185m 995 952 1041 1088 Zinc ppm ASTM D5185m 995 952 1041 1088 Zinc ppm ASTM D5185m 2600 2695 2999 3496 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m >20 1 <1 <1 Potassium ppm ASTM D5185m >20 1 <1 6 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7624 >20 9.7	Molybdenum	ppm				62	64
Calcium ppm ASTM D5185m 1050 1004 1075 1198 Phosphorus ppm ASTM D5185m 995 952 1041 1088 Zinc ppm ASTM D5185m 1180 1178 1261 1338 Sulfur ppm ASTM D5185m 2600 2695 2999 3496 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m >20 1 <1	Manganese	ppm	ASTM D5185m	0	0	<1	0
Phosphorus ppm ASTM D5185m 995 952 1041 1088 Zinc ppm ASTM D5185m 1180 1178 1261 1338 Sulfur ppm ASTM D5185m 2600 2695 2999 3496 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m >20 1 <1	Magnesium	ppm	ASTM D5185m	950	956	977	1032
Zinc ppm ASTM D5185m 1180 1178 1261 1338 Sulfur ppm ASTM D5185m 2600 2695 2999 3496 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m >20 1 1 <1	Calcium	ppm	ASTM D5185m	1050	1004	1075	1198
Sulfur ppm ASTM D5185m 2600 2695 2999 3496 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m <1	Phosphorus	ppm	ASTM D5185m	995	952	1041	1088
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m <1	Zinc	ppm	ASTM D5185m	1180	1178	1261	1338
Silicon ppm ASTM D5185m >30 3 4 3 Sodium ppm ASTM D5185m <1 1 <1 <1 Potassium ppm ASTM D5185m >20 1 <1 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.2 0.3 Nitration Abs/cm *ASTM D7624 >20 9.7 7.1 9.0 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 17.8 19.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 14.4 17.0	Sulfur	ppm	ASTM D5185m	2600	2695	2999	3496
Sodium ppm ASTM D5185m <1 1 <1 Potassium ppm ASTM D5185m >20 1 <1	CONTAMINA	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 <1 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.2 0.3 Nitration Abs/cm *ASTM D7624 >20 9.7 7.1 9.0 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 17.8 19.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 14.4 17.0	Silicon	ppm	ASTM D5185m	>30	3	4	3
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.2 0.3 Nitration Abs/cm *ASTM D7624 >20 9.7 7.1 9.0 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 17.8 19.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 14.4 17.0	Sodium	ppm	ASTM D5185m		<1	1	<1
Soot % % *ASTM D7844 >3 0.5 0.2 0.3 Nitration Abs/cm *ASTM D7624 >20 9.7 7.1 9.0 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 17.8 19.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 14.4 17.0	Potassium	ppm	ASTM D5185m	>20	1	<1	6
Nitration Abs/cm *ASTM D7624 >20 9.7 7.1 9.0 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 17.8 19.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 14.4 17.0	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 20.6 17.8 19.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 14.4 17.0	Soot %	%	*ASTM D7844	>3	0.5	0.2	0.3
Sulfation Abs/.1mm *ASTM D7415 >30 20.6 17.8 19.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 14.4 17.0	Nitration	Abs/cm	*ASTM D7624	>20	9.7	7.1	9.0
Oxidation Abs/.1mm *ASTM D7414 >25 17.9 14.4 17.0				>30			
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	14.4	17.0
	Base Number (BN)		ASTM D2896		6.3	8.5	7.4



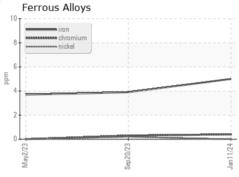
OIL ANALYSIS REPORT

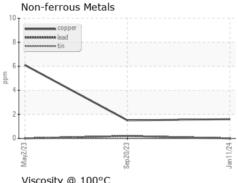


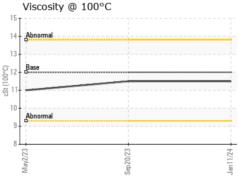
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

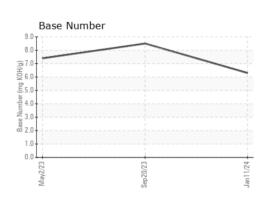
L LOID PROPI	EHILO	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	11.5	11.0

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10844152

Test Package : FLEET

: PCA0105871 : 06067475

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Jan 2024

Diagnosed Diagnostician : Wes Davis

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

Transervice - Shop 1361 - Berkeley-Windsor

4400 State Road 19 Windsor, WI US 53598

Contact: Mike Hurda mhurda@transervice.com

T: (608)846-2726 F: (608)846-0389