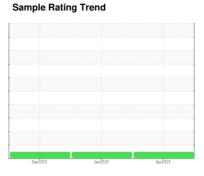


OIL ANALYSIS REPORT

(89633X) Walgreens - Tractor [Walgreens - Tractor] 136A68021

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

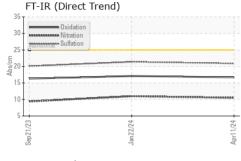
Fluid Condition

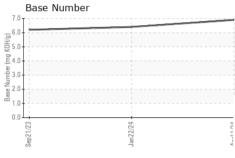
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

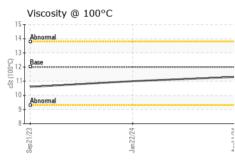
SAMPLE INFORMATION method limit/base current history1 PCA0093479 Sample Number Client Info 11 Apr 2024 22 Jan 2024 21 Sep 2023 160101 16010	JAL)		56	02023	Janzuz4 Aprzu	29			
Sample Date	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Machine Age mls Client Info 179907 160101 160101 Oil Age mls Client Info 179907 160101 160101 Oil Changed Client Info Changed Chan	Sample Number		Client Info		PCA0123038	PCA0110573	PCA0093479		
Oil Age mls Client Info 179907 160101 160101 Oil Changed Sample Status Client Info Changed C	Sample Date		Client Info		11 Apr 2024	22 Jan 2024	21 Sep 2023		
Oil Changed Sample Status Client Info MORMAL Changed NORMAL Changed NoRMAC Changed NoRMAC Changed NoRMAC Changed NoRMAC Changed NoRMAC Change NEG	Machine Age	mls	Client Info		179907	160101	160101		
NORMAL NORMAL NORMAL	Oil Age	mls	Client Info		179907	160101	160101		
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >80 40 66 24 Chromium ppm ASTM D5185m >5 2 3 1 Nickel ppm ASTM D5185m >2 0 <1 0 Silver ppm ASTM D5185m >2 0 <1 0 Silver ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >30 0 0 0 Lead ppm ASTM D5185m >1 2 0 0 Copper </th <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Changed</th> <th>Changed</th>	Oil Changed		Client Info		Changed	Changed	Changed		
Fuel	Sample Status				NORMAL	NORMAL	NORMAL		
Water Glycol WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >80 40 66 24 Chromium ppm ASTM D5185m >5 2 3 1 Nickel ppm ASTM D5185m >2 0 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2		
Silycol WC Method MEG NEG NEG	Fuel		WC Method	>5	<1.0	<1.0	<1.0		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >80 40 66 24 Chromium ppm ASTM D5185m >5 2 3 1 Nickel ppm ASTM D5185m >2 0 <1	Water		WC Method	>0.2	NEG	NEG	NEG		
Iron	Glycol		WC Method		NEG	NEG	NEG		
Chromium ppm ASTM D5185m >5 2 3 1 Nickel ppm ASTM D5185m >2 0 <1	WEAR METAL	S	method	limit/base	current	history1	history2		
Nickel	Iron	ppm	ASTM D5185m	>80	40	66	24		
Titanium	Chromium	ppm	ASTM D5185m	>5	2	3	1		
Silver	Nickel	ppm	ASTM D5185m	>2	0	<1	0		
Aluminum	Titanium	ppm	ASTM D5185m		20	2	15		
Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >150 1 22 2 Tin ppm ASTM D5185m >5 1 2 0 Vanadium ppm ASTM D5185m 0 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 20 10 13 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 20 10 1 ADJUTIVES method limit/base current history1 hist	Silver	ppm	ASTM D5185m	>3	0	0	0		
Copper ppm ASTM D5185m >150 1 22 2 Tin ppm ASTM D5185m >5 1 2 0 Vanadium ppm ASTM D5185m 0 <1	Aluminum	ppm	ASTM D5185m	>30	3	9	1		
Tin ppm ASTM D5185m >5 1 2 0 Vanadium ppm ASTM D5185m 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 20 10 13 Barium ppm ASTM D5185m 0 0 <1 0 Molybdenum ppm ASTM D5185m 50 43 55 43 Manganese ppm ASTM D5185m 50 43 55 43 Magnesium ppm ASTM D5185m 950 745 778 811 Calcium ppm ASTM D5185m 995 931 862 950 Zinc ppm ASTM D5185m 995 931 862 950 Zinc ppm ASTM D5185m 2600 3508 2763 3395	Lead	ppm	ASTM D5185m	>30	0	0	0		
Vanadium ppm ASTM D5185m 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 20 10 13 Barium ppm ASTM D5185m 0 0 <1 0 Molybdenum ppm ASTM D5185m 50 43 55 43 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 745 778 811 Calcium ppm ASTM D5185m 950 745 778 811 Calcium ppm ASTM D5185m 995 931 862 950 Phosphorus ppm ASTM D5185m 290 3508 2763 3395 CONTAMINANTS method limit/base current history1 <	Copper	ppm	ASTM D5185m	>150	1	22	2		
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 20 10 13 Barium ppm ASTM D5185m 0 0 <1	Tin	ppm	ASTM D5185m	>5	1	2	0		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	<1	<1		
Boron	Cadmium	ppm	ASTM D5185m		0	0	0		
Barium ppm ASTM D5185m 0 0 <1	ADDITIVES		method	limit/base	current	history1	history2		
Molybdenum ppm ASTM D5185m 50 43 55 43 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	2	20	10	13		
Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 745 778 811 Calcium ppm ASTM D5185m 1050 1247 1208 1253 Phosphorus ppm ASTM D5185m 995 931 862 950 Zinc ppm ASTM D5185m 1180 1148 1125 1180 Sulfur ppm ASTM D5185m 2600 3508 2763 3395 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 7 6 Sodium ppm ASTM D5185m >20 2 16 <1	Barium	ppm	ASTM D5185m	0	0	<1	0		
Magnesium ppm ASTM D5185m 950 745 778 811 Calcium ppm ASTM D5185m 1050 1247 1208 1253 Phosphorus ppm ASTM D5185m 995 931 862 950 Zinc ppm ASTM D5185m 1180 1148 1125 1180 Sulfur ppm ASTM D5185m 2600 3508 2763 3395 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 7 6 Sodium ppm ASTM D5185m >20 2 16 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.1 0.6 Nitration Abs/cm *ASTM D7624 >20 10.5 11.0 9.4 Sulfation Abs/.1mm *ASTM D7414<	Molybdenum	ppm	ASTM D5185m	50	43	55	43		
Calcium ppm ASTM D5185m 1050 1247 1208 1253 Phosphorus ppm ASTM D5185m 995 931 862 950 Zinc ppm ASTM D5185m 1180 1148 1125 1180 Sulfur ppm ASTM D5185m 2600 3508 2763 3395 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 7 6 Sodium ppm ASTM D5185m >20 2 16 <1	Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Phosphorus ppm ASTM D5185m 995 931 862 950 Zinc ppm ASTM D5185m 1180 1148 1125 1180 Sulfur ppm ASTM D5185m 2600 3508 2763 3395 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 7 6 Sodium ppm ASTM D5185m >20 2 16 <1	Magnesium	ppm	ASTM D5185m	950	745	778	811		
Zinc ppm ASTM D5185m 1180 1148 1125 1180 Sulfur ppm ASTM D5185m 2600 3508 2763 3395 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 7 6 Sodium ppm ASTM D5185m >20 2 16 <1	Calcium	ppm	ASTM D5185m	1050	1247	1208	1253		
Sulfur ppm ASTM D5185m 2600 3508 2763 3395 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 7 6 Sodium ppm ASTM D5185m >20 2 16 <1	Phosphorus	ppm		995	931	862	950		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 7 6 Sodium ppm ASTM D5185m 3 4 2 Potassium ppm ASTM D5185m >20 2 16 <1	Zinc	ppm	ASTM D5185m	1180	1148	1125	1180		
Silicon ppm ASTM D5185m >20 6 7 6 Sodium ppm ASTM D5185m 3 4 2 Potassium ppm ASTM D5185m >20 2 16 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.1 0.6 Nitration Abs/cm *ASTM D7624 >20 10.5 11.0 9.4 Sulfation Abs/.1mm *ASTM D7415 >30 20.9 21.4 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 17.1 16.3	Sulfur	ppm	ASTM D5185m	2600	3508	2763	3395		
Sodium ppm ASTM D5185m 3 4 2 Potassium ppm ASTM D5185m >20 2 16 <1	CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Potassium ppm ASTM D5185m >20 2 16 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.1 0.6 Nitration Abs/cm *ASTM D7624 >20 10.5 11.0 9.4 Sulfation Abs/.1mm *ASTM D7415 >30 20.9 21.4 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 17.1 16.3	Silicon	ppm	ASTM D5185m	>20	6	7	6		
INFRA-RED	Sodium	ppm	ASTM D5185m		3	4	2		
Soot % % *ASTM D7844 >3 1 1.1 0.6 Nitration Abs/cm *ASTM D7624 >20 10.5 11.0 9.4 Sulfation Abs/.1mm *ASTM D7415 >30 20.9 21.4 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 17.1 16.3	Potassium	ppm	ASTM D5185m	>20	2	16	<1		
Nitration Abs/cm *ASTM D7624 >20 10.5 11.0 9.4 Sulfation Abs/.1mm *ASTM D7415 >30 20.9 21.4 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 17.1 16.3	INFRA-RED		method	limit/base	current	history1	history2		
Sulfation Abs/.1mm *ASTM D7415 >30 20.9 21.4 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 17.1 16.3	Soot %	%	*ASTM D7844	>3	1	1.1	0.6		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 17.1 16.3	Nitration	Abs/cm	*ASTM D7624	>20	10.5	11.0	9.4		
Oxidation Abs/.1mm *ASTM D7414 >25 16.7 17.1 16.3	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.4	20.1		
	FLUID DEGRADATION method limit/base current history1 history2								
Base Number (BN) mg KOH/g ASTM D2896 6.9 6.4 6.2	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	17.1	16.3		
	Base Number (BN)	mg KOH/g	ASTM D2896		6.9	6.4	6.2		

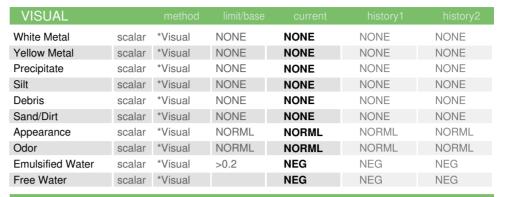


OIL ANALYSIS REPORT



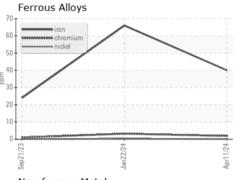


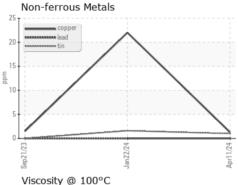


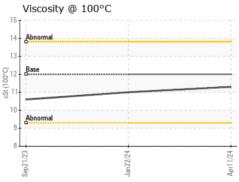


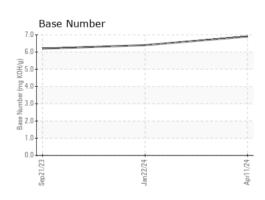
FLUID PROP	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.0	10.6

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06157308 Unique Number : 10992731

Test Package : FLEET

: PCA0123038

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024 **Tested** : 24 Apr 2024 Diagnosed

: 24 Apr 2024 - Wes Davis

Transervice - Shop 1376 - Berkeley-Linden 3425 Tremley Point Road

Linden, NJ US 07036

Contact: Shop 1376 Oil Analysis shop1376@transervice.com

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

T:

F: