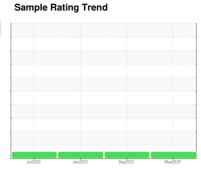


OIL ANALYSIS REPORT

(20433Z) Walgreens - Tractor [Walgreens - Tractor] 136A61365

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

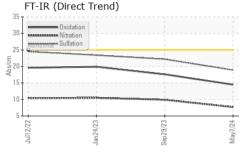
Fluid Condition

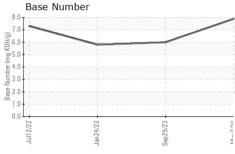
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

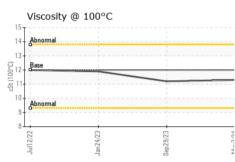
Sample Number Client Info PCA0107545 PCA0107555 PCA009088 Sample Date Client Info O7 May 2024 29 Sep 2023 24 Jan 202 28 Sep 2023 24 Jan 202 28 Sep 2023 24 Jan 202 28 Sep 2023 27 I000 25379 Oil Age mils Client Info 289038 27 I000 25379 Oil Age mils Client Info Changed Changed Changed Changed NORIMAL NO							
Client Info Q7 May 2024 29 Sep 2023 24 Jan 202 29 Sep 2023 24 Jan 202 29 Sep 2023 24 Jan 202 28 Jan 202	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 289038 271000 225379	Sample Number		Client Info		PCA0107545	PCA0107555	PCA0090865
Oil Age mIs Client Info 289038 271000 59315 Oil Changed Clanged Changed NoRMAL	Sample Date		Client Info		07 May 2024	29 Sep 2023	24 Jan 2023
Client Info	Machine Age	mls	Client Info		289038	271000	225379
NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 history2 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	Oil Age	mls	Client Info		289038	271000	59315
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0	Oil Changed		Client Info		Changed	Changed	Changed
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water WC Method >0.2 NEG NEG NEG Glycol WC Method Image: NEG NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >110 8 24 31 Chromium ppm ASTM D5185m >4 0 <1	CONTAMINATI	ION	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >110 8 24 31 Chromium ppm ASTM D5185m >4 0 <1	Water		WC Method	>0.2	NEG	NEG	NEG
Irron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >4 0 <1 <1 Nickel ppm ASTM D5185m >2 0 0 0 Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 <1	WEAR METALS	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>110	8	24	31
Description	Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>2	0	0	0
Aluminum ppm ASTM D5185m >25 3 6 9 Lead ppm ASTM D5185m >45 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m	>2		<1	0
Copper ppm ASTM D5185m >85 <1 2 11 Tin ppm ASTM D5185m >4 <1	Aluminum	ppm	ASTM D5185m	>25	3	6	9
Tin	Lead	ppm	ASTM D5185m	>45	<1	<1	<1
Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 6 8 2 Barium ppm ASTM D5185m 0 0 <1 0 Molybdenum ppm ASTM D5185m 50 62 69 63 Manganese ppm ASTM D5185m 50 62 69 63 Manganesium ppm ASTM D5185m 950 902 961 881 Calcium ppm ASTM D5185m 950 902 961 881 Calcium ppm ASTM D5185m 995 1021 1021 975 Zinc ppm ASTM D5185m 995 1021 1021 975 Zinc ppm ASTM D5185m 2600 3245<	Copper	ppm	ASTM D5185m	>85	<1	2	11
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 6 8 2 Barium ppm ASTM D5185m 0 0 <1	Tin	ppm	ASTM D5185m	>4		1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 6 8 2 Barium ppm ASTM D5185m 0 0 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 <1 0 Molybdenum ppm ASTM D5185m 50 62 69 63 Manganese ppm ASTM D5185m 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 62 69 63 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 902 961 881 Calcium ppm ASTM D5185m 1050 1089 1123 1139 Phosphorus ppm ASTM D5185m 995 1021 1021 975 Zinc ppm ASTM D5185m 995 1021 1021 975 Zinc ppm ASTM D5185m 2600 3245 2664 2500 Sulfur ppm ASTM D5185m 2600 3245 2664 2500 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base	Boron	ppm	ASTM D5185m	2		8	2
Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 902 961 881 Calcium ppm ASTM D5185m 1050 1089 1123 1139 Phosphorus ppm ASTM D5185m 995 1021 1021 975 Zinc ppm ASTM D5185m 1180 1203 1255 1207 Sulfur ppm ASTM D5185m 2600 3245 2664 2500 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base current history1 history1 Soot % % ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7415 >30	Barium	ppm	ASTM D5185m	0	0	<1	0
Magnesium ppm ASTM D5185m 950 902 961 881 Calcium ppm ASTM D5185m 1050 1089 1123 1139 Phosphorus ppm ASTM D5185m 995 1021 1021 975 Zinc ppm ASTM D5185m 995 1203 1255 1207 Sulfur ppm ASTM D5185m 2600 3245 2664 2500 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base current history1 history3 Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/:mm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/:mm *ASTM D7414	Molybdenum	ppm	ASTM D5185m	50	62	69	63
Calcium ppm ASTM D5185m 1050 1089 1123 1139 Phosphorus ppm ASTM D5185m 995 1021 1021 975 Zinc ppm ASTM D5185m 1180 1203 1255 1207 Sulfur ppm ASTM D5185m 2600 3245 2664 2500 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Phosphorus ppm ASTM D5185m 995 1021 1021 975 Zinc ppm ASTM D5185m 1180 1203 1255 1207 Sulfur ppm ASTM D5185m 2600 3245 2664 2500 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm	Magnesium	ppm	ASTM D5185m	950	902	961	881
Zinc ppm ASTM D5185m 1180 1203 1255 1207 Sulfur ppm ASTM D5185m 2600 3245 2664 2500 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	Calcium	ppm	ASTM D5185m	1050	1089	1123	1139
Sulfur ppm ASTM D5185m 2600 3245 2664 2500 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m <1	Phosphorus	ppm	ASTM D5185m	995	1021	1021	975
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m <1	Zinc	ppm	ASTM D5185m	1180	1203	1255	1207
Silicon ppm ASTM D5185m >30 5 8 8 Sodium ppm ASTM D5185m <1 0 2 Potassium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	Sulfur	ppm	ASTM D5185m	2600	3245	2664	2500
Sodium ppm ASTM D5185m <1 0 2 Potassium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 9 23 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	Silicon	ppm	ASTM D5185m	>30	5	8	
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	Sodium	ppm	ASTM D5185m		<1	0	2
Soot % % *ASTM D7844 >3 0.4 0.8 0.9 Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	Potassium	ppm	ASTM D5185m	>20	2	9	23
Nitration Abs/cm *ASTM D7624 >20 7.7 9.9 10.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.9 22.2 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	Soot %	%	*ASTM D7844	>3	0.4	0.8	0.9
FLUID DEGRADATION method limit/base current history1 history3 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.9	10.5
Oxidation Abs/.1mm *ASTM D7414 >25 14.5 17.6 19.9	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	22.2	23.4
	FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 7.9 6.0 5.8	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	17.6	19.9
	Base Number (BN)	mg KOH/g	ASTM D2896		7.9	6.0	5.8

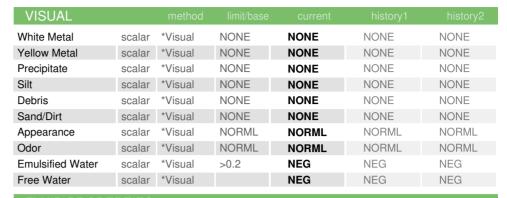


OIL ANALYSIS REPORT



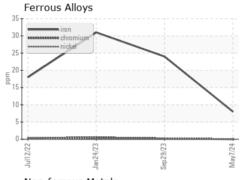


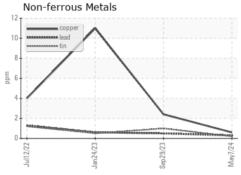


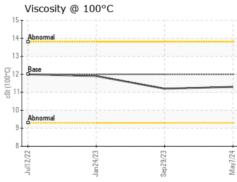


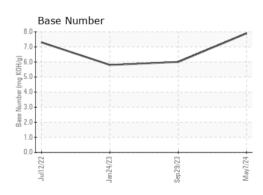
FLUID PROP	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.2	11.9

GRAPHS













Laboratory Sample No.

Lab Number : 06175262 Unique Number : 11021315

: PCA0107545

Test Package : FLEET

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

Received : 10 May 2024 Tested : 13 May 2024

Diagnosed : 13 May 2024 - Wes Davis

Transervice - Shop 1367 - Berkeley-Jupiter

15998 Walgreens Drive Jupiter, FL US 33478

Contact: Manny Gonzalez egonzalez@transervice.com

T: (561)776-0755 F: (561)776-0799

Certificate 12367 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)