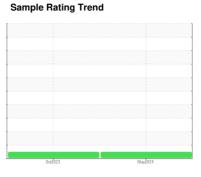


OIL ANALYSIS REPORT

(3130613) Dairy Farms of America-Tractor [Dairy Farms of America-Tractor] 268A722048

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

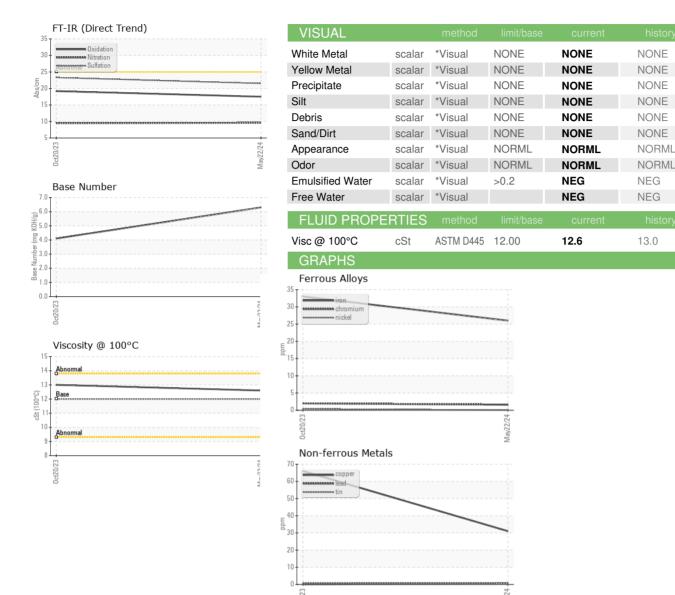
Fluid Condition

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 PCA0108293 PCA0108287 Sample Date Client Info 22 May 2024 20 Oct 2023 Machine Age mls Client Info 142016 100114 Client Info 40000 40000 Client Info Changed Client Info Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed Changed	iAL)			0 et 2023	May2024		
Sample Date Client Info 122 May 2024 20 Oct 2023	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 142016 100114 Oil Age mls Client Info 40000 40000 Oil Changed Client Info Changed Changed Sample Status NORMAL NORMAL NORMAL CONTAMINATION method Imit/base current history1 history1 Fuel	Sample Number		Client Info		PCA0108293	PCA0108287	
Machine Age mls Client Info 142016 100114	Sample Date		Client Info		22 May 2024	20 Oct 2023	
Contained Client Info Changed Normal Normal Normal Normal Contained Normal Normal	•	mls	Client Info		142016	100114	
CONTAMINATION	Oil Age	mls	Client Info		40000	40000	
CONTAMINATION	Oil Changed		Client Info		Changed	Changed	
Water WC Method So	Sample Status				_		
Water WC Method >0.2 NEG NEG	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	-uel		WC Method	>5	<1.0	<1.0	
WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >80 26 33	Nater		WC Method	>0.2	NEG	NEG	
Chromium	Glycol		WC Method		NEG	NEG	
Chromium	WEAR METAL	.S	method	limit/base	current	history1	history2
Silver	ron	ppm	ASTM D5185m	>80	26	33	
Silver	Chromium	ppm	ASTM D5185m	>5	2	2	
Silver	Nickel	ppm	ASTM D5185m	>2	0	<1	
Aluminum	Γitanium	ppm	ASTM D5185m		<1	0	
Lead	Silver	ppm	ASTM D5185m	>3	<1	0	
Copper	Aluminum	ppm	ASTM D5185m	>30	8	16	
ASTM D5185m STM D5185m ST	_ead	ppm	ASTM D5185m	>30	<1	0	
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 2 10 134 Barium ppm ASTM D5185m 0 0 7 Wolybdenum ppm ASTM D5185m 0 60 100 Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 950 678 478 Calcium ppm ASTM D5185m 950 678 478 Phosphorus ppm ASTM D5185m 995 780 868 Zinc ppm ASTM D5185m 995 780 868 Cilicon ppm ASTM D5185m 2600 2248 2576	Copper	ppm	ASTM D5185m	>150	31	66	
ADDITIVES	Γin	ppm	ASTM D5185m	>5	<1	<1	
ADDITIVES	/anadium	ppm	ASTM D5185m		0	0	
Soron ppm ASTM D5185m 2 10 134	Cadmium	ppm	ASTM D5185m		0	0	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 60 100 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	2	10	134	
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 950 678 478 Calcium ppm ASTM D5185m 1050 999 1404 Phosphorus ppm ASTM D5185m 995 780 868 Zinc ppm ASTM D5185m 1180 947 1045 Sulfur ppm ASTM D5185m 2600 2248 2576 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >20 5 7 Codium ppm ASTM D5185m >20 12 29 Potassium ppm ASTM D5185m >20 12 29 INFRA-RED method limit/base current history1 history1 Solfation Abs/cm *ASTM D7624	Barium	ppm	ASTM D5185m	0	0	7	
Magnesium ppm ASTM D5185m 950 678 478 Calcium ppm ASTM D5185m 1050 999 1404 Phosphorus ppm ASTM D5185m 995 780 868 Zinc ppm ASTM D5185m 1180 947 1045 Sulfur ppm ASTM D5185m 2600 2248 2576 CONTAMINANTS method limit/base current history1 histor Silicon ppm ASTM D5185m >20 5 7 Sodium ppm ASTM D5185m >20 12 29 Potassium ppm ASTM D5185m >20 12 29 INFRA-RED method limit/base current history1 history1 history1 Soot % % *ASTM D7624 >20 9.6 9.5 Sulfation Abs/.1mm	Molybdenum	ppm	ASTM D5185m	50	60	100	
Calcium ppm ASTM D5185m 1050 999 1404 Phosphorus ppm ASTM D5185m 995 780 868 Zinc ppm ASTM D5185m 1180 947 1045 Sulfur ppm ASTM D5185m 2600 2248 2576 CONTAMINANTS method limit/base current history1 history1 history1 history1 history2 Sodium ppm ASTM D5185m >20 5 7	Manganese	ppm	ASTM D5185m	0	<1	<1	
Phosphorus ppm ASTM D5185m 995 780 868 Zinc ppm ASTM D5185m 1180 947 1045 Sulfur ppm ASTM D5185m 2600 2248 2576 CONTAMINANTS method limit/base current history1 histor Silicon ppm ASTM D5185m >20 5 7 Sodium ppm ASTM D5185m 4 0 Potassium ppm ASTM D5185m >20 12 29 INFRA-RED method limit/base current history1 history1 history1 Soot % % *ASTM D7844 >3 1 0.8 Nitration Abs/:nm *ASTM D7415 >30 21.5 23.3 FLUID DEGRADATION method limit/base current history1 history1 history2	Magnesium	ppm	ASTM D5185m	950	678	478	
Zinc ppm ASTM D5185m 1180 947 1045 Sulfur ppm ASTM D5185m 2600 2248 2576 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >20 5 7 Sodium ppm ASTM D5185m >20 12 29 Potassium ppm ASTM D5185m >20 12 29 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >3 1 0.8 Soilfation Abs/cm *ASTM D7624 >20 9.6 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.3 FLUID DEGRADATION method limit/base current history1 history1 Coxidation Abs/.1mm *ASTM D7414 >25 17.5 19.2	Calcium	ppm	ASTM D5185m	1050	999	1404	
Zinc	Phosphorus	ppm	ASTM D5185m	995	780	868	
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >20 5 7 Sodium ppm ASTM D5185m 4 0 Potassium ppm ASTM D5185m >20 12 29 INFRA-RED method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 17.5 19.2	Zinc	ppm	ASTM D5185m	1180	947	1045	
Solition ppm ASTM D5185m >20 5 7	Sulfur	ppm	ASTM D5185m	2600	2248	2576	
Sodium ppm ASTM D5185m 4 0 Potassium ppm ASTM D5185m >20 12 29 INFRA-RED method limit/base current history1 history1 history1 Soot % % *ASTM D7844 >3 1 0.8 Nitration Abs/cm *ASTM D7624 >20 9.6 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.3 FLUID DEGRADATION method limit/base current history1 history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 17.5 19.2	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 12 29 INFRA-RED method limit/base current history1 history Soot % % *ASTM D7844 >3 1 0.8 Nitration Abs/cm *ASTM D7624 >20 9.6 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.3 FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 17.5 19.2	Silicon	ppm	ASTM D5185m	>20	5	7	
INFRA-RED	Sodium	ppm	ASTM D5185m		4	0	
Soot %	Potassium	ppm	ASTM D5185m	>20	12	29	
Nitration Abs/cm *ASTM D7624 >20 9.6 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.3 FLUID DEGRADATION method limit/base current history1 history1 history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 17.5 19.2	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.5 23.3 FLUID DEGRADATION method limit/base current history1 history1 Dxidation Abs/.1mm *ASTM D7414 >25 17.5 19.2	Soot %	%	*ASTM D7844	>3	1	0.8	
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.5 19.2	Vitration	Abs/cm	*ASTM D7624	>20	9.6	9.5	
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	23.3	
	FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 6.3 4.1	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	19.2	
	Base Number (BN)	mg KOH/g	ASTM D2896		6.3	4.1	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PCA0108293 **Lab Number** : 06196110 Unique Number : 11058233 Test Package : FLEET

cSt (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 Tested

Diagnosed : 31 May 2024 - Wes Davis

: 31 May 2024

6.0

E 4.0 륕 3.0

0.0

Base Number

Transervice - Shop 2680 - LeMars 1330 12th Ave SW

LeMars, IA US 51031

Contact: Stacey Rabey srabey@transervice.com T: (712)501-9908

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)

Viscosity @ 100°C

Report Id: TSV2680 [WUSCAR] 06196110 (Generated: 05/31/2024 16:33:18) Rev: 1

Contact/Location: Stacey Rabey - TSV2680