WEAR CONTAMINATION FLUID CONDITION

ATTENTION

ABNORMAL

NORMAL

Area

FLEET/DILLON

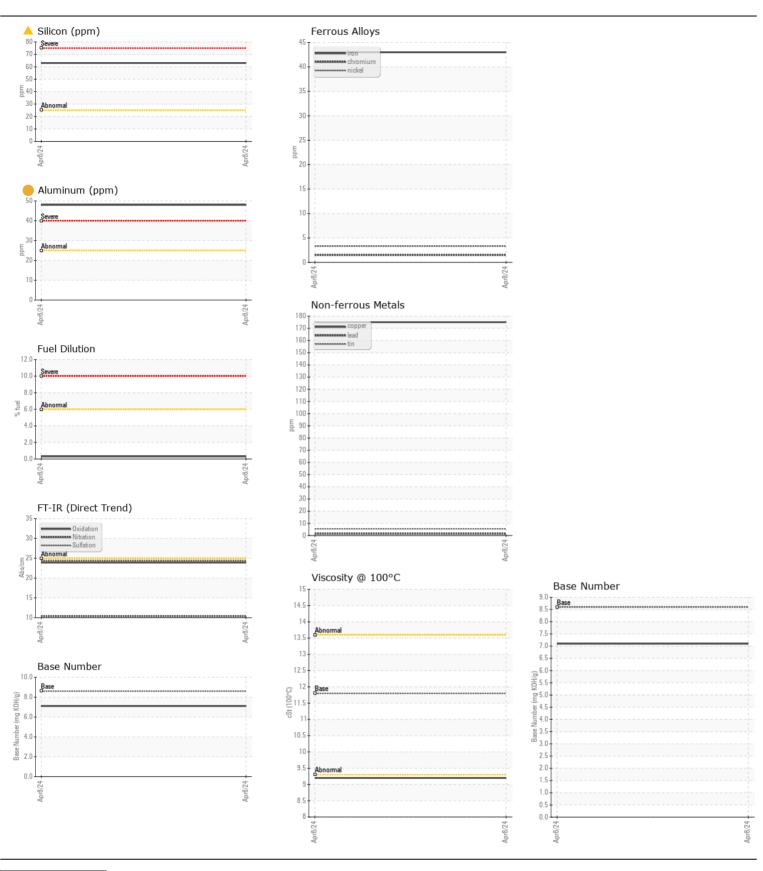
2227107

Component

Main Diesel Engine

PETRO CANADA DURON-E 10W30 (36 QTS)

Test	PETRO CANADA DURON-E 10W30 (36 Q15)							
We advise that you check the air filter, air induction system, and any areas where diff may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Machine Age mis Client Info 0 0 0 0 0 0 0 0 0	RECOMMENDATION	Test	UOM	Method	I imit/Abn	Current	History1	History2
Vica divise that you check the air filter, air induction system, and any areas where diff may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Vica division of the content of the content of the time of sampling has been noted. Resample at the next service interval to monitor. Vica division of the content of the conten	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the							
### Machine Age mis Cilient Info 24912		•						
Clare Info Clare Info Clare Info Clare Info Changed Filter Age Mis Client Info Changed Clare Info Changed Clare Info Changed C			mls			-		
Filter Age		9						
Oil Changed Chent Info Changed Chent Info Changed Changed Chent Info Changed Changed Chent Info C	to monitor.							
Filter Changed Sample Status		_	0					
Name								
Iron		•				_		
All component wear rates are normal. Chromium ppm ASTM D5165m >2 3								
Nicke		Iron	ppm	ASTM D5185m	>100	43		
Note Pilm Astro-Disciss 1 Tatanium Pilm Astro-Disciss 2 18 Aluminum Pilm Astro-Disciss 2 48 Aluminum Pilm Astro-Disciss 25 48 Aluminum Pilm Astro-Disciss 25 48 Copper Pilm Astro-Disciss 25 48 Valuadium Pilm Astro-Disciss 25 56 Variadium Pilm Astro-Disciss 25 56 Valuadium Pilm Astro-Disciss 25 46 63 Visual NONE NONE NONE Volual NONE NONE Valuadium Pilm Astro-Disciss 25 46 3 Visual NONE NONE Valuadium Pilm Astro-Disciss 25 46 63 Valuadium Pilm Astro-Disciss 25 24 25 Valuadium Pilm Astro-Disciss 25 Valuadium Pilm Astro-Disciss 25 Valuadium Pilm Astro-Disciss 25 Valuadium Pilm		Chromium	ppm	ASTM D5185m	>20	2		
Silver ppm ASTM 05185m >25 48		Nickel	ppm	ASTM D5185m	>2	3		
Aluminum ppm ASTM DS185m >25 48		Titanium	ppm	ASTM D5185m		1		
Lead		Silver	ppm	ASTM D5185m	>2	18		
Copper		Aluminum	ppm	ASTM D5185m	>25	48		
Tin		Lead	ppm	ASTM D5185m	>40	2		
Vanadium ppm ASTM D6185m NONE NONE NONE Yellow Metal scalar Visual NONE		Copper	ppm	ASTM D5185m	>330	175		
White Metal Scalar Visual NONE NON		Tin	ppm	ASTM D5185m	>15	6		
Vellow Metal Scalar Visual NONE NONE CONTAMINATION Fuel content negligible. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. Fuel % ASTM D585m >20 145 Fuel % ASTM D585m >20 145 Fuel % ASTM D585m >20 145 Glycol WC Method NEG Glycol WC Method NEG South None NEG Sulfation Abs/lmm *ASTM D7844 >3 0.2 Sulfation Abs/lmm *ASTM D7845 >3 0.2 Sulfation Abs/lmm *ASTM D7845 >3 0.2 Sulfation Abs/lmm *ASTM D585m NONE NONE NONE		Vanadium	ppm	ASTM D5185m		<1		
Silicon ppm ASTM D5185m >25 ▲ 63		White Metal	scalar	*Visual	NONE	NONE		
Potassium		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium								
Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Fuel % ASTM D3524 >6.0 0.3	CONTAMINATION		ppm					
(Al) indicate alumina-silicate (coarse dirt) ingress. Water Wc Method O.2 NEG Glycol WC Method Soot % % ASTM D7844 >3 O.2 Nitration Abs/cm ASTM D7845 >3 O.2 NONE								
Water WC Method S0.2 NEG S019 NE			%					
Soot %	, ,				>0.2			
Nitration					-			
Sulfation Abs/.tmm *ASTM D7415 >30 24.4 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML								
Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE Sone Scalar *Visual NORML Scalar *Visual *Visual NORML Scalar *Visual *Visual NORML Scalar *Visual								
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sandroman Normal Social *Visual NORML NORML Scalar *Visual NORML *Visual *Visual NORML *Visual NORML *Visual NORML *Visual *Visual NORML *Visual *Visual NORML *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Vi								
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NOR								
Appearance								
Codor Scalar *Visual NORML NORML Emulsified Water Scalar *Visual >0.2 NEG								
Emulsified Water scalar *Visual >0.2 NEG		• •						
Sodium ppm ASTM D5185m 1 215								
Boron ppm ASTM D5185m 1 215		Emuisined water	Scalar	visuai	>0.2	NEG		
Boron ppm ASTM D5185m 1 215	FLUID CONDITION	Sodium	ppm	ASTM D5185m		4		
Barium ppm ASTM D5185m 0 1 Molybdenum ppm ASTM D5185m 60 126 Manganese ppm ASTM D5185m 0 5 Magnesium ppm ASTM D5185m 1010 630 Calcium ppm ASTM D5185m 1070 1467 Phosphorus ppm ASTM D5185m 1150 702 Zinc ppm ASTM D5185m 1270 753 Sulfur ppm ASTM D5185m 2060 2283 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1			ppm		1	215		
Molybdenum ppm ASTM D5185m 60 126 Manganese ppm ASTM D5185m 0 5 Magnesium ppm ASTM D5185m 1010 630 Calcium ppm ASTM D5185m 1070 1467 Phosphorus ppm ASTM D5185m 1150 702 Zinc ppm ASTM D5185m 1270 753 Sulfur ppm ASTM D5185m 2060 2283 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1	The condition of the oil is acceptable for the time in service.							
Magnesium ppm ASTM D5185m 1010 630 Calcium ppm ASTM D5185m 1070 1467 Phosphorus ppm ASTM D5185m 1150 702 Zinc ppm ASTM D5185m 1270 753 Sulfur ppm ASTM D5185m 2060 2283 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1		Molybdenum	• • • • • • • • • • • • • • • • • • • •	ASTM D5185m	60	126		
Magnesium ppm ASTM D5185m 1010 630 Calcium ppm ASTM D5185m 1070 1467 Phosphorus ppm ASTM D5185m 1150 702 Zinc ppm ASTM D5185m 1270 753 Sulfur ppm ASTM D5185m 2060 2283 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1		Manganese						
Calcium ppm ASTM D5185m 1070 1467 Phosphorus ppm ASTM D5185m 1150 702 Zinc ppm ASTM D5185m 1270 753 Sulfur ppm ASTM D5185m 2060 2283 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1				ASTM D5185m	1010			
Phosphorus ppm ASTM D5185m 1150 702 Zinc ppm ASTM D5185m 1270 753 Sulfur ppm ASTM D5185m 2060 2283 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1		Calcium						
Zinc ppm ASTM D5185m 1270 753 Sulfur ppm ASTM D5185m 2060 2283 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1				ASTM D5185m	1150	702		
Sulfur ppm ASTM D5185m 2060 2283 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1			ppm					
Oxidation Abs/.1mm *ASTM D7414 >25 23.9 Base Number (BN) mg KOH/g ASTM D2896 8.6 7.1		Sulfur		ASTM D5185m	2060			
		Oxidation	Abs/.1mm	*ASTM D7414	>25			
		Base Number (BN)	mg KOH/g	ASTM D2896	8.6	7.1		
		Visc @ 100°C	cSt	ASTM D445	11.80	9.2		





Certificate L2367

Laboratory Sample No.

Lab Number : 06146883 Unique Number: 10976961

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0116284

Received **Tested**

: 12 Apr 2024 Diagnosed

: 17 Apr 2024

: 17 Apr 2024 - Jonathan Hester **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

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

DILLON, SC US 29536 Contact: KEVIN HOOKS kevin.hooks@perdue.com

PERDUE FARMS - DILLON

2047 HWY 9 WEST

T: (843)841-8069 F: (843)841-8070

* - 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)