WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

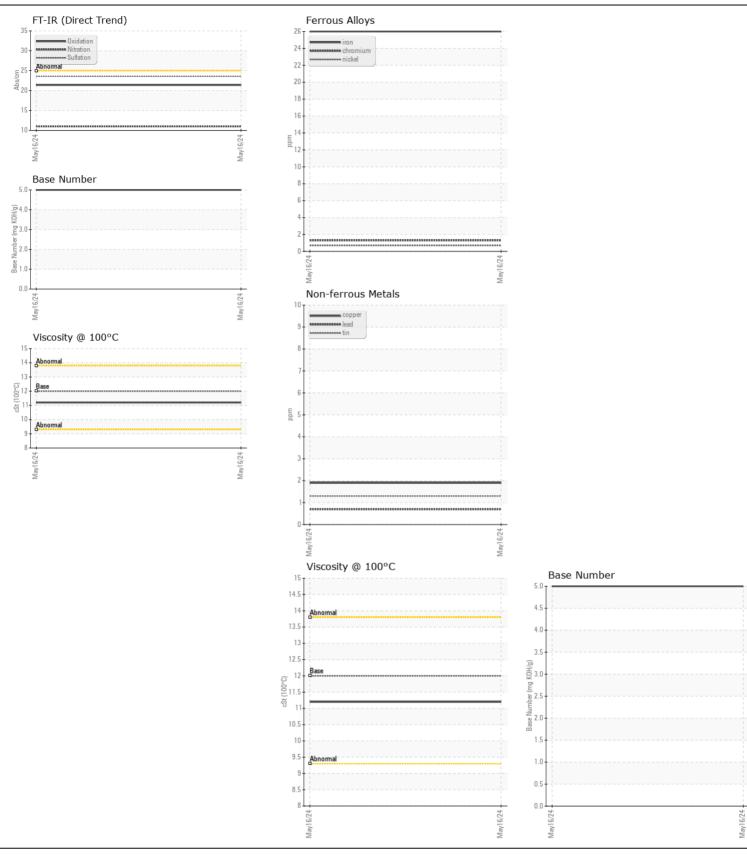
NWW GREENWOOD

DT707

Diesel Engine

PETRO CANADA DURON SHP 10W30 (38 QTS)

Sample Namber Client Info Poblization Poblization	PETRO CANADA DURON SHP 10W30 (38 QTS							
Sample Number Sample Det Client Info Sample Status Client Info Sample Status Client Info Changed Changed Client Info Changed Changed Client Info Changed Client Info Changed Changed Client Info Changed Changed Client Info Changed Changed Changed Changed Changed Client Info Changed Cha	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age mis Cilent Info 212528	Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0127154		
Oil Age mils Client Info O		Sample Date		Client Info		16 May 2024		
Filter Age		Machine Age	mls	Client Info				
Filter Age		Oil Age	mls	Client Info		0		
Oil Changed Client Info Changed Changed Client Info Changed Ch			mls	Client Info		0		
Filter Changed Sample Status						Changed		
NORMAL N								
Chromium ppm ASTM D5186m >20 1		_				_		
Chromium ppm ASTM D5186m >20 1	WEAR	lua.a		ACTA DE10E	100	00		
Nickel ppm ASTM D5185m >4 <1 Silver ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >0 6 AsTM D5185m >20 6 ASTM D5185m >20 6 ASTM D5185m >20 6 Ppm ASTM D5185m >40 <1 Ppm ASTM D5185m >15 1 Ppm ASTM D5185m >15 1 Ppm ASTM D5185m >20 6 Ppm ASTM D5185m >15 1 Ppm ASTM D5185m >20 6 Potassium ppm ASTM D5185m >20 6 Potassium ppm ASTM D5185m >20 6 Potassium ppm ASTM D5185m >20 6 Puel WC Method >5 <1.0 Water WC Method >5 <1.0 Glycol WC Method >5 <1.0 Glycol WC Method >5 <1.0 Sulfation Abs/mm ASTM D784 >3 0.6 Sulfation Abs/mm ASTM D784 >3 0.6 Sulfation Abs/mm ASTM D784 >20 23.6 Pebris Scalar Visual NONE NONE Public Wc Method NONE NONE Public Public NONE NONE NONE Public Public NONE NONE NONE Public Public NONE NONE NONE NONE Public Public NONE	WEAR							
Titanium Silver ppm ASTM DS185m < 1 Silver ppm ASTM DS185m > 20 6 Lead ppm ASTM DS185m > 20 6 Copper ppm ASTM DS185m > 30 2 Tin ppm ASTM DS185m > 15 1 Vanadium ppm ASTM DS185m > 15 1 Vanadium ppm ASTM DS185m > 20 6 Valuer Visual NONE NONE Visual NONE NONE NONE NONE NONE NONE NONE NONE Visual NONE	All component wear rates are normal.							
Silver					>4			
Aluminum			ppm					
Lead		Silver	ppm					
Copper ppm ASTM D5185m >330 2		Aluminum	ppm	ASTM D5185m	>20	6		
Tin			ppm	ASTM D5185m	>40	<1		
Vanadium ppm ASTM D5185m <1		Copper	ppm	ASTM D5185m	>330	2		
White Metal Scalar Visual NONE NON		Tin	ppm	ASTM D5185m	>15	1		
Vellow Metal scalar Visual NONE NONE Silicon ppm ASTM 05185m >25 6 Potassium ppm ASTM 05185m >20 6 Water WC Method >5 <1.0 Water WC Method >5 <1.0 Water WC Method >0.2 NEG Glycol WC Method NEG Soot % % 'ASTM 07844 >3 0.6 Nitration Abs/cm 'ASTM 07844 >3 0.6 Sulfation Abs/cm ASTM 05185m 0.0 Sulfation Ass/cm AST		Vanadium	ppm	ASTM D5185m		<1		
Silicon ppm ASTM D5185m >25 6		White Metal	scalar	*Visual	NONE	NONE		
Potassium		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium	CONTAMINATION	Cilioon	nnm	ACTM DE10Em	. 25	6		
Fuel WC Method So So So So WC Method So So So WC Method So WC Method	CONTAMINATION							
Water Wick Method Solition Abs/cm *ASTM D7844 Solition Solition Abs/cm *ASTM D7845 Solition Abs/cm *ASTM D7845 Solition Abs/cm *ASTM D7845 Solition Solition Abs/cm *ASTM D7845 Solition Solition Abs/cm *ASTM D7845 Solition S	There is no indication of any contamination in the oil.		ppm					
Glycol Soot % % % "ASTM D7844 >3								
Soot %					>0.2			
Nitration Abs/cm					-			
Sulfation Abs/.tmm *ASTM.D7415 >30 23.6 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML NORML NORML NORML Appearance scalar *Visual NORML NORML NORML Debris scalar *Visual NONE NONE NONE NORML Debris scalar *Visual NORML NORML NORML NORML Debris scalar *Visual NORML NORML NORML NORML NORML NORML Debris scalar *Visual NORML								
Silt scalar *Visual NONE NO								
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE NORML NORM			Abs/.1mm		>30			
Sand/Dirt Scalar *Visual NONE NONE NORML			scalar	*Visual				
Appearance Scalar *Visual NORML NORM		Debris	scalar		NONE	NONE		
Odor Scalar *Visual NORML NORML Fmulsified Water Scalar *Visual NORML NORM		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 2 2 2		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 2 2 2		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 2 2 2	FLUID CONDITION	Sodium	nnm	ASTM D5185m		<1		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 0 74 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 950 982 Calcium ppm ASTM D5185m 1050 1281 Phosphorus ppm ASTM D5185m 995 1017 Zinc ppm ASTM D5185m 180 1383 Sulfur ppm ASTM D5185m 2600 2998 Oxidation Abs/.1mm *ASTM D7414 >25 21.4 Base Number (BN) mg KOH/g ASTM D2896 5.0					2			
Molybdenum ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 0	The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.							
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 950 982 Calcium ppm ASTM D5185m 1050 1281 Phosphorus ppm ASTM D5185m 995 1017 Zinc ppm ASTM D5185m 1180 1383 Sulfur ppm ASTM D5185m 2600 2998 Oxidation Abs/.1mm *ASTM D7414 >25 21.4 Base Number (BN) mg KOH/g ASTM D2896 5.0								
Magnesium ppm ASTM D5185m 950 982 Calcium ppm ASTM D5185m 1050 1281 Phosphorus ppm ASTM D5185m 995 1017 Zinc ppm ASTM D5185m 1180 1383 Sulfur ppm ASTM D5185m 2600 2998 Oxidation Abs/.1mm *ASTM D7414 >25 21.4 Base Number (BN) mg KOH/g ASTM D2896 5.0		-						
Calcium ppm ASTM D5185m 1050 1281 Phosphorus ppm ASTM D5185m 995 1017 Zinc ppm ASTM D5185m 1180 1383 Sulfur ppm ASTM D5185m 2600 2998 Oxidation Abs/.1mm *ASTM D7414 >25 21.4 Base Number (BN) mg KOH/g ASTM D2896 5.0								
Phosphorus ppm ASTM D5185m 995 1017 Zinc ppm ASTM D5185m 1180 1383 Sulfur ppm ASTM D5185m 2600 2998 Oxidation Abs/.1mm *ASTM D7414 >25 21.4 Base Number (BN) mg KOH/g ASTM D2896 5.0		9						
Zinc ppm ASTM D5185m 1180 1383 Sulfur ppm ASTM D5185m 2600 2998 Oxidation Abs/.1mm *ASTM D7414 >25 21.4 Base Number (BN) mg KOH/g ASTM D2896 5.0								
Sulfur ppm ASTM D5185m 2600 2998 Oxidation Abs/.1mm *ASTM D7414 >25 21.4 Base Number (BN) mg KOH/g ASTM D2896 5.0								
Oxidation Abs/.1mm *ASTM D7414 >25 21.4 Base Number (BN) mg KOH/g ASTM D2896 5.0								
Base Number (BN) mg KOH/g ASTM D2896 5.0								
					>25			
Visc @ 100°C cSt ASTM D445 12.00 11.2								
		Visc @ 100°C	cSt	ASTM D445	12.00	11.2		







Certificate L2367

Laboratory Sample No.

: PCA0127154 Lab Number : 06190060 Unique Number : 11046812 Test Package : FLEET

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

: 25 May 2024 Diagnosed : 25 May 2024 - Wes Davis

NW WHITE & CO - GREENWOOD DIVISION

411 QUARRY ROAD GREENWOOD, SC US 29149

Contact: Mitchell Brown

To discuss this sample report, contact Customer Service at 1-800-237-1369. greenwoodshop@nwwhite.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (864)389-9553

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

F: