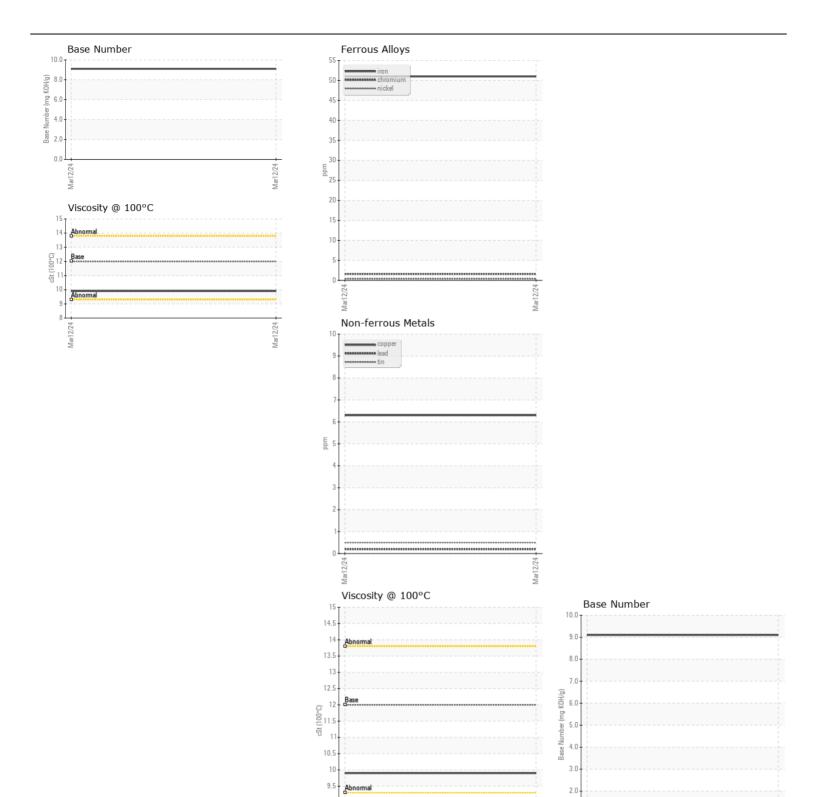


Machine Id
414131
Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- LTR)

Resample at the next service interval to monitor.   Sample Date   Client Info   Sample Date   Client Info   Sample Date   Client Info   State   Sample Date   Client Info   State	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age   hrs   Client Info   512		Sample Number		Client Info			-	
Oil Age   hrs   Client Info   0   0		Sample Date		Client Info		12 Mar 2024		
Filter Age		Machine Age	hrs	Client Info		612		
Dil Changed   Client Info   Changed   Changed   Client Info   Changed   Changed   Client Info   Changed   Changed		Oil Age	hrs	Client Info		612		
Filter Changed   Cample Status		Filter Age	hrs	Client Info		0		
VEAR		Oil Changed		Client Info		Changed		
Vicinity   Vicinity		Filter Changed		Client Info		Changed		
Chromium   ppm   ASTN DB186m   > 2		Sample Status				NORMAL		
Chromium   ppm   ASTN DB186m   50   2         Nickel   ppm   ASTN DB186m   50   2         Titanium   ppm   ASTN DB186m   50   2         Titanium   ppm   ASTN DB186m   50   0         ASTN DB186m   50   6         ASTN DB186m   50   0   6         ASTN DB186m   50   0   0       ASTN DB186m   50   0   39       ASTN DB186m   50   0   30       ASTN DB186m   50   0   4       ASTN DB186m   50   0   30       ASTN DB186m   50   0   4       ASTN	WEAR	Iron	ppm	ASTM D5185m	>80	51		
Nickel   ppm   ASTM D5186m   >2   <1           Sliver   ppm   ASTM D5186m   >3   0         Sliver   ppm   ASTM D5186m   >3   0         Aluminum   ppm   ASTM D5186m   >3   0         Aluminum   ppm   ASTM D5186m   >3   0         ASTM D5186m   >4   0   0         ASTM D5186m   >5   <1         ASTM		Chromium	ppm	ASTM D5185m	>5	2		
Silver   ppm   ASTM D5185m   >3   0		Nickel		ASTM D5185m	>2	<1		
Aluminum   ppm   ASTM D5185m   >30   10		Titanium	ppm	ASTM D5185m		<1		
Lead		Silver	ppm	ASTM D5185m	>3	0		
Copper		Aluminum	ppm	ASTM D5185m	>30	10		
Tin		Lead	ppm	ASTM D5185m	>30	<1		
Vanadium		Copper	ppm	ASTM D5185m	>150	6		
White Metal   Scalar   Visual   NONE   NON		Tin	ppm	ASTM D5185m	>5	<1		
Vellow Metal   scalar   Visual   NONE   NO		Vanadium	ppm	ASTM D5185m		0		
Silicon   ppm   ASTM D5185m   20   39		White Metal	scalar	*Visual	NONE	NONE		
Potassium		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium	CONTAMINATION	Silicon	nnm	ASTM D5185m	<b>&gt;20</b>	1/1		
Fuel   WC Method   S5   <1.0   S10   S10	CONTAMINATION							
Water	There is no indication of any contamination in the oil.		ррпп					
Glycol								
Soot % % 'ASTM D7844   >3   0.8         Nitration   Abs/cm 'ASTM D7624   >20   8.3         Sulfation   Abs/cm 'ASTM D7624   >20   8.3         Sulfation   Abs/cm 'ASTM D7624   >20   8.3         Sulfation   Abs/cm 'ASTM D7415   >30   23.0         Silt   scalar 'Visual   NONE   NONE   NONE         Debris   scalar 'Visual   NONE   NONE   NONE         Appearance   scalar 'Visual   NORM					70.L			
Nitration   Abs/cm   *ASTM D7624   >20   8.3         Sulfation   Abs/tmm   *ASTM D7415   >30   23.0         Silt   scalar   *Visual   NONE   NONE   NONE     Debris   scalar   *Visual   NONE   NONE   NONE     Sand/Dirt   scalar   *Visual   NONE   NONE         Sand/Dirt   scalar   *Visual   NORM   N			%		>3			
Sulfation   Abs./tmm   *ASTM D7415   >30   23.0								
Silt   Scalar   *Visual   NONE   NONE   Debris   Scalar   *Visual   NONE   Sand/Dirt   Scalar   *Visual   NONE   NORML								
Debris   Scalar   *Visual   NONE   NORML   NORML								
Sand/Dirt   Scalar *Visual   NONE   NONE   NORML   Appearance   Scalar *Visual   NORML   NOR								
Codor   Scalar   *Visual   NORML   NORML   Emulsified Water   Scalar   *Visual   Visual   V		Sand/Dirt	scalar	*Visual		NONE		
Emulsified Water   scalar   *Visual   >0.2   NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium   ppm   ASTM D5185m   2   44		Odor	scalar	*Visual	NORML	NORML		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.    Boron   ppm   ASTM D5185m   0   4           Molybdenum   ppm   ASTM D5185m   0   3           Manganese   ppm   ASTM D5185m   0   3           Magnesium   ppm   ASTM D5185m   0   3           Magnesium   ppm   ASTM D5185m   1050   1584           Phosphorus   ppm   ASTM D5185m   1050   1584           Zinc   ppm   ASTM D5185m   1180   935           Sulfur   ppm   ASTM D5185m   2600   2577           Oxidation   Abs/.1mm   *ASTM D7414   >25   20.9           Base Number (BN)   mg KOH/g   ASTM D2896   9.1		<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.    Boron   ppm   ASTM D5185m   0   4           Molybdenum   ppm   ASTM D5185m   0   3           Manganese   ppm   ASTM D5185m   0   3           Magnesium   ppm   ASTM D5185m   0   3           Magnesium   ppm   ASTM D5185m   1050   1584           Phosphorus   ppm   ASTM D5185m   1050   1584           Zinc   ppm   ASTM D5185m   1180   935           Sulfur   ppm   ASTM D5185m   2600   2577           Oxidation   Abs/.1mm   *ASTM D7414   >25   20.9           Base Number (BN)   mg KOH/g   ASTM D2896   9.1	ELUID CONDITION	Codium	nnm	ACTM DE10Em		2		
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   4	FEOID CONDITION				2			
Molybdenum   ppm   ASTM D5185m   50   44         Manganese   ppm   ASTM D5185m   0   3         Magnesium   ppm   ASTM D5185m   0   533         Calcium   ppm   ASTM D5185m   1050   1584         Phosphorus   ppm   ASTM D5185m   1050   1584         Zinc   ppm   ASTM D5185m   1180   935         Sulfur   ppm   ASTM D5185m   2600   2577         Oxidation   Abs/.1mm   *ASTM D7414   >25   20.9         Base Number (BN)   mg KOH/g   ASTM D2896   9.1								
Manganese         ppm         ASTM D5185m         0         3             Magnesium         ppm         ASTM D5185m         950         533             Calcium         ppm         ASTM D5185m         1050         1584             Phosphorus         ppm         ASTM D5185m         995         761             Zinc         ppm         ASTM D5185m         1180         935             Sulfur         ppm         ASTM D5185m         2600         2577             Oxidation         Abs/.1mm         *ASTM D7414         >25         20.9             Base Number (BN)         mg K0H/g         ASTM D2896         9.1								
Magnesium         ppm         ASTM D5185m         950         533             Calcium         ppm         ASTM D5185m         1050         1584             Phosphorus         ppm         ASTM D5185m         995         761             Zinc         ppm         ASTM D5185m         1180         935             Sulfur         ppm         ASTM D5185m         2600         2577             Oxidation         Abs/.1mm         *ASTM D7414         >25         20.9             Base Number (BN)         mg KOH/g         ASTM D2896         9.1								
Calcium         ppm         ASTM D5185m         1050         1584             Phosphorus         ppm         ASTM D5185m         995         761             Zinc         ppm         ASTM D5185m         1180         935             Sulfur         ppm         ASTM D5185m         2600         2577             Oxidation         Abs/.1mm         *ASTM D7414         >25         20.9             Base Number (BN)         mg KOH/g         ASTM D2896         9.1		_						
Phosphorus         ppm         ASTM D5185m         995         761             Zinc         ppm         ASTM D5185m         1180         935             Sulfur         ppm         ASTM D5185m         2600         2577             Oxidation         Abs/.1mm         *ASTM D7414         >25         20.9             Base Number (BN)         mg KOH/g         ASTM D2896         9.1		•						
Zinc         ppm         ASTM D5185m         1180         935             Sulfur         ppm         ASTM D5185m         2600         2577             Oxidation         Abs/.1mm         *ASTM D7414         >25         20.9             Base Number (BN)         mg KOH/g         ASTM D2896         9.1								
Sulfur         ppm         ASTM D5185m         2600         2577             Oxidation         Abs/.1mm         *ASTM D7414         >25         20.9             Base Number (BN)         mg KOH/g         ASTM D2896         9.1								
Oxidation         Abs/.1mm         *ASTM D7414         >25         20.9             Base Number (BN)         mg KOH/g         ASTM D2896         9.1								
Base Number (BN)         mg KOH/g         ASTM D2896         9.1								
Visc @ 100°C cSt ASTM D445 12.00 <b>√ 9.9</b> /		Visc @ 100°C	cSt		12.00			







Laboratory Sample No.

: GFL0113983 Lab Number : 06122210 Unique Number : 10936361 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 **Tested** : 20 Mar 2024

: 21 Mar 2024 - Don Baldridge Diagnosed

Mar12/24

GFL Environmental - 932 - Muskego HC

W144 S6400 College Ct. Muskego, WI

US 53150 Contact: Brian Schlomann

brian.schlomann@gflenv.com T: (262)510-4586

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)