WEAR CONTAMINATION FLUID CONDITION

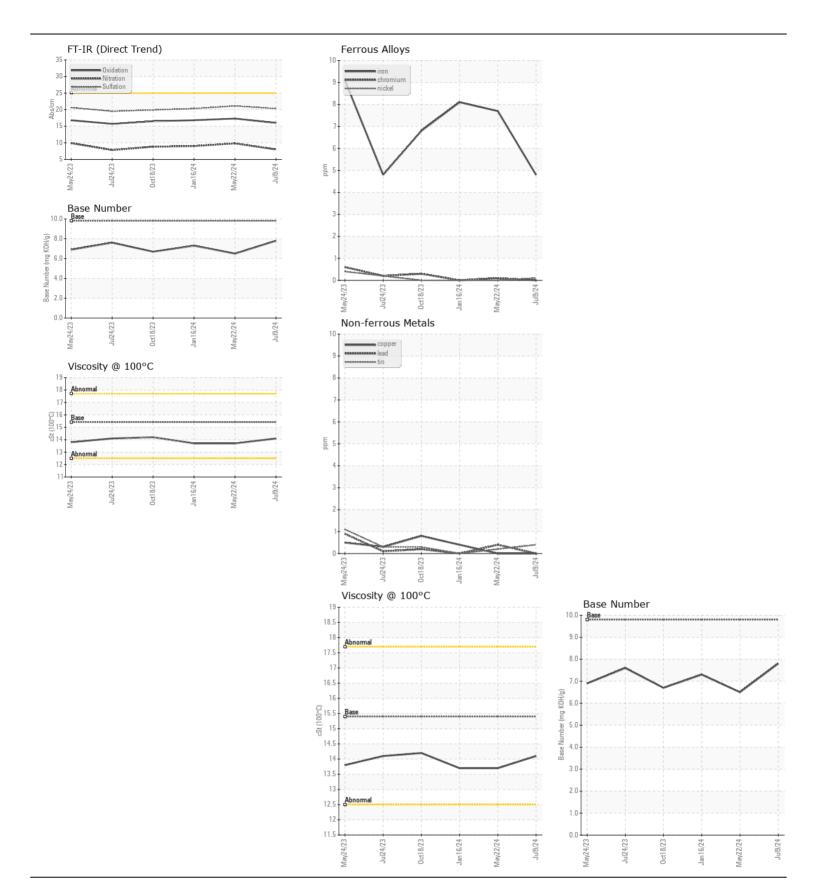
NORMAL NORMAL



Machine Id
429092
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

Recample at the next cervice interval to monitor	PETRO CANADA DURON SHP	15W40 (40 (	ats)					
Resample at the next service interval to monitor.   Sample Date   Client Info   Clie	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age   hrs   Client Info   7801   7524   6943   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   6943   7524   7524   6943   7524   7524   6943   7524   7524   6943   7524   7524   7524   6943   7524   7		Sample Number		Client Info		GFL0110769	GFL0110775	GFL0092877
Oil Ape		Sample Date		Client Info		09 Jul 2024	22 May 2024	16 Jan 2024
Filter Age		Machine Age	hrs	Client Info		7801	7524	6943
		Oil Age	hrs	Client Info		277	581	422
		Filter Age	hrs	Client Info		277	581	422
Nome		Oil Changed		Client Info		Changed	Changed	Changed
Iron		Filter Changed		Client Info		Changed	Changed	Changed
Chromium   Oph   ASTIN DISSIS   20   0   0   0   0   0   0   0   0		Sample Status				NORMAL	NORMAL	NORMAL
Chromium   Oph   ASTIN DISSIS   20   0   0   0   0   0   0   0   0	WFAR	Iron	maa	ASTM D5185m	>120	5	8	8
Nickel   ppm   ASTM D6188m   55   <1   0   0   <								
Titanium   ppm   ASTM 05185m   >2   0   0   <1	All component wear rates are normal.							
Silver								
Aluminum   ppm   ASTM D5185m   >20   2   2   <1								
Lead   ppm   ASTM D5185m   3-40   0   0   0   0								
Copper								
Tin								
Vanadium   ppm   ASTM 05185m   0 0 0 0 0   NONE								
White Metal Yellow Metal   Scalar   "Visual NONE NONE NONE NONE NONE NONE NONE NON					7.0			
Silicon					NONE	-		
Potassium   ppm   ASTM D5185m   2-0   1   <1   0						_		
Potassium   ppm   ASTM D5185m   2-0   1   <1   0	CONTAMINATION	Ciliana		ACTA DE10E	05			
Fuel WC Method	CONTAMINATION		• • • • • • • • • • • • • • • • • • • •					
Water	There is no indication of any contamination in the oil.		ppm					
Glycol								
Soot %					>0.2			
Nitration   Abs/cm   *ASTM D7624   >20   8.0   9.8   9.0			0/		. 1			
Sulfation   Abs/1mm								
Silt   scalar   *Visual   NONE   NO								
Debris   Scalar   *Visual   NONE								
Sand/Dirt   Scalar   *Visual   NONE   NONE   NONE   NONE   Appearance   Scalar   *Visual   NORML   N								
Appearance								
Odor   Scalar *Visual   NORML   NORM								
Emulsified Water   scalar   *Visual   >0.2   NEG   NEG   NEG		• •						
Sodium   ppm   ASTM D5185m   7   3   4								
Boron   ppm   ASTM D5185m   0   0   0   0   0   0   0   0   0	ELUD CONDITION							
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   0   0   0   0     Molybdenum   ppm   ASTM D5185m   60   59   60   58     Manganese   ppm   ASTM D5185m   0   0   0   0   0     Magnesium   ppm   ASTM D5185m   1010   948   1080   969     Calcium   ppm   ASTM D5185m   1070   1143   1319   1154     Phosphorus   ppm   ASTM D5185m   1150   1075   1182   995     Zinc   ppm   ASTM D5185m   1270   1278   1477   1229     Sulfur   ppm   ASTM D5185m   2060   3658   3951   2988     Oxidation   Abs/.1mm   *ASTM D7414   >25   16.0   17.3   16.8     Base Number (BN)   mg KOH/g   ASTM D2896   9.8   7.8   6.5   7.3	FLUID CONDITION							
oil. The condition of the oil is suitable for further service.    Molybdenum   ppm   ASTM D5185m   60   59   60   58	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese         ppm         ASTM D5185m         0         0         <1	, ,		• • • • • • • • • • • • • • • • • • • •					
Magnesium         ppm         ASTM D5185m         1010         948         1080         969           Calcium         ppm         ASTM D5185m         1070         1143         1319         1154           Phosphorus         ppm         ASTM D5185m         1150         1075         1182         995           Zinc         ppm         ASTM D5185m         1270         1278         1477         1229           Sulfur         ppm         ASTM D5185m         2060         3658         3951         2988           Oxidation         Abs/.1mm         *ASTM D7414         >25         16.0         17.3         16.8           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         7.8         6.5         7.3								
Calcium         ppm         ASTM D5185m         1070         1143         1319         1154           Phosphorus         ppm         ASTM D5185m         1150         1075         1182         995           Zinc         ppm         ASTM D5185m         1270         1278         1477         1229           Sulfur         ppm         ASTM D5185m         2060         3658         3951         2988           Oxidation         Abs/.1mm         *ASTM D7414         >25         16.0         17.3         16.8           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         7.8         6.5         7.3								
Phosphorus         ppm         ASTM D5185m         1150         1075         1182         995           Zinc         ppm         ASTM D5185m         1270         1278         1477         1229           Sulfur         ppm         ASTM D5185m         2060         3658         3951         2988           Oxidation         Abs/.1mm         *ASTM D7414         >25         16.0         17.3         16.8           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         7.8         6.5         7.3		•						
Zinc         ppm         ASTM D5185m         1270         1278         1477         1229           Sulfur         ppm         ASTM D5185m         2060         3658         3951         2988           Oxidation         Abs/.1mm         *ASTM D7414         >25         16.0         17.3         16.8           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         7.8         6.5         7.3								
Sulfur         ppm         ASTM D5185m         2060         3658         3951         2988           Oxidation         Abs/.1mm         *ASTM D7414         >25         16.0         17.3         16.8           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         7.8         6.5         7.3		·						
Oxidation         Abs/.1mm         *ASTM D7414         >25         16.0         17.3         16.8           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         7.8         6.5         7.3								
Base Number (BN)         mg KOH/g         ASTM D2896         9.8         7.8         6.5         7.3								
VISC @ 100°C CST ASIM D445 15.4 14.1 13.7 13.7								
		visc @ 100°C	cst	ASTM D445	15.4	14.1	13.7	13.7







Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0110769 Lab Number : 06237232 Unique Number : 11126066

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** 

: 17 Jul 2024 Diagnosed : 17 Jul 2024 - Wes Davis

GFL Environmental - 411 - Kingsford HC

1001 E Blvd Kingsford, MI US 49802

Contact: Service Manager

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)

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F: