WEAR CONTAMINATION FLUID CONDITION

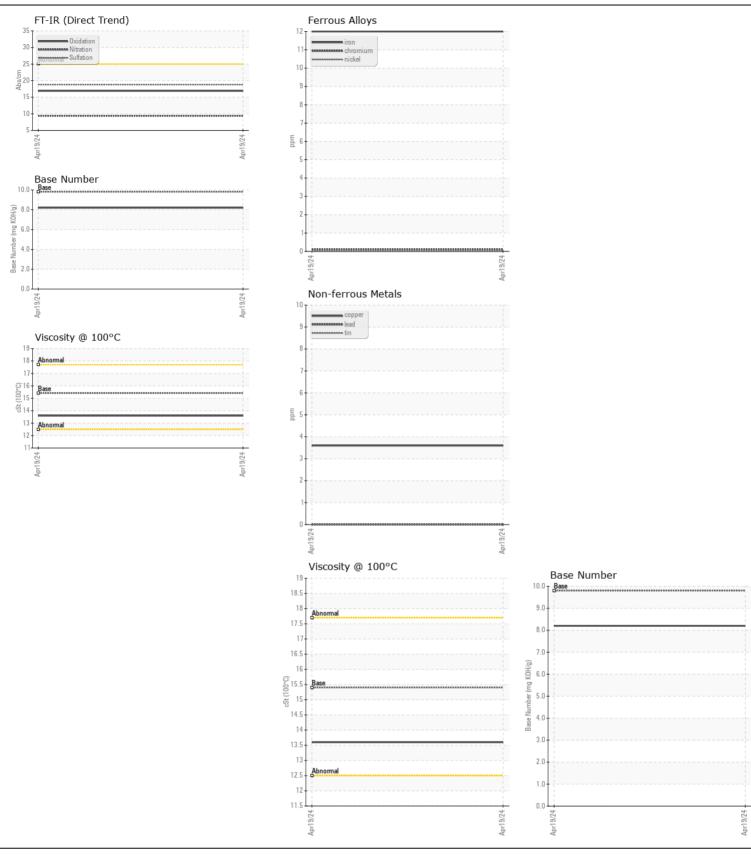
NORMAL NORMAL



Machine Id
227074
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

Test Um Method Method Current Method Method Current Method Metho	PETRO CANADA DURON SIIP	1344-0 ((<u> </u>					
Resample at the next service interval to monitor.	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age mis Client Info 0 Client Info NA		Sample Number		Client Info		GFL0108459		
Oil Age	Resample at the next service interval to monitor.	Sample Date		Client Info		19 Apr 2024		
Filter Age		Machine Age	mls	Client Info		0		
Cilchanged Cil		Oil Age	mls	Client Info		0		
Filter Changed Client Info NA NA NA NA NA NA NA N		Filter Age	mls	Client Info		0		
Normal N		Oil Changed		Client Info		N/A		
Iron		Filter Changed		Client Info		N/A		
All component wear rates are normal. Nickel ppm ASTM D6185m >20 0 Titanium ppm ASTM D6185m >2 0 All molimom ppm ASTM D6185m >3 0 0 All molimom ppm ASTM D6185m 0 0 0 All molimom ppm ASTM D6185m		Sample Status				NORMAL		
All component wear rates are normal. Nickel ppm ASTM D6185m >20 0 Titanium ppm ASTM D6185m >2 0 All molimom ppm ASTM D6185m >3 0 0 All molimom ppm ASTM D6185m 0 0 0 All molimom ppm ASTM D6185m	WEAD	Iron	nnm	ACTM DE10Em	. 120	40		
Nicke					-			
Titanium ppm ASTM D5185m >2 0 All uminum ppm ASTM D5185m >2 0 All uminum ppm ASTM D5185m >2 0 All uminum ppm ASTM D5185m >40 0 0 ASTM D5185m >40 0 0 ASTM D5185m >40 0 0 ASTM D5185m >15 0 ASTM D5185m >20 0 ASTM D5185m >25 5 ASTM D5185m >25 >25 5 ASTM D5185m >25 >25 >25 ASTM D5185m >25 >25 >25 ASTM D5185m >25								
Silver ppm ASTM D5186m >20 0			• •					
Aluminum ppm ASTM D5185m >20 3								
Lead ppm ASTM DS185m >40 0								
Copper								
Time Part ASTM D588m S15 O Color Color								
Vanadium ppm ASTM D5185m 0 0								
White Metal Scalar *Visual NONE NO					>15			
Silicon ppm ASTM D5185m >25 5					NONE	-		
Silicon ppm ASTM D5185m 22 0 0					_			
Potassium ppm ASTM D5185m 20 0		Yellow Metal	scalar	^Visual	NONE	NONE		
Potassium ppm ASTM D5185m 20 0	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5		
Fuel WC Method So.0 Cal.0 Ca			• •					
Water WC Method 0.0.2 NEG	There is no indication of any contamination in the oil.		pp					
Glycol								
Soot %					7 0.2			
Nitration Abs/cm "ASTM D7624 >20 9.4			%		>4			
Sulfation Abs/.1mm *ASTM D7415 >30 18.8 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Appearance scalar *Visual NORML NORML 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.								
Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML N								
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NORML Scalar *Visual NORML NORML Scalar *Visual		Silt						
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML NORM					NONE			
Codor Scalar *Visual NORML NORML Fmulsified Water Scalar *Visual >0.2 NEG		Sand/Dirt	scalar					
Emulsified Water scalar *Visual >0.2 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 6 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0 Maganese ppm ASTM D5185m 0 59 Magnesium ppm ASTM D5185m 1010 963 Calcium ppm ASTM D5185m 1070 1081 Phosphorus ppm ASTM D5185m 1270 1226 Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 Base Number (BN) mg KOHg ASTM D2896 9.8 8.2		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 0 6 Magnesium ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 1010 963 Phosphorus ppm ASTM D5185m 1070 1081 Zinc ppm ASTM D5185m 1270 1226 Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.tmm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 0 6 Magnesium ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 1010 963 Phosphorus ppm ASTM D5185m 1070 1081 Zinc ppm ASTM D5185m 1270 1226 Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.tmm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2								
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 59	FLUID CONDITION							
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 60 59 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 1010 963 Calcium ppm ASTM D5185m 1070 1081 Phosphorus ppm ASTM D5185m 1150 1049 Zinc ppm ASTM D5185m 1270 1226 Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese ppm ASTM D5185m 0 <1								
Magnesium ppm ASTM D5185m 1010 963 Calcium ppm ASTM D5185m 1070 1081 Phosphorus ppm ASTM D5185m 1150 1049 Zinc ppm ASTM D5185m 1270 1226 Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2		•						
Calcium ppm ASTM D5185m 1070 1081 Phosphorus ppm ASTM D5185m 1150 1049 Zinc ppm ASTM D5185m 1270 1226 Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2		_						
Phosphorus ppm ASTM D5185m 1150 1049 Zinc ppm ASTM D5185m 1270 1226 Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2		•						
Zinc ppm ASTM D5185m 1270 1226 Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2								
Sulfur ppm ASTM D5185m 2060 3290 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2								
Oxidation Abs/.1mm *ASTM D7414 >25 16.9 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2								
Base Number (BN) mg KOH/g ASTM D2896 9.8 8.2								
VISC @ 100°C CST ASTM D440 10.4 13.6		\ /	0 0					
		visc @ 100°C	COI	A3 I WI D445	15.4	13.6		





Certificate L2367

Laboratory Sample No.

: GFL0108459 Lab Number : 06158900 Unique Number: 10994323 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024 **Tested**

: 25 Apr 2024 Diagnosed : 25 Apr 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

Contact: Andy Kane

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) T: (715)202-3420 F: