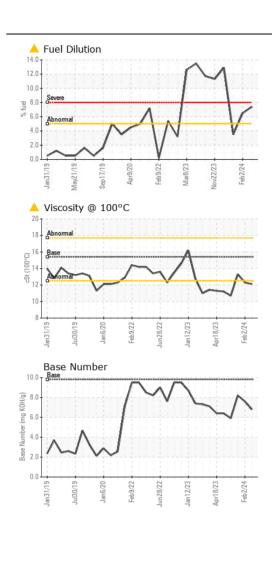
**WEAR** CONTAMINATION **FLUID CONDITION** 

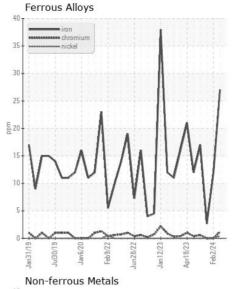
**NORMAL ABNORMAL ABNORMAL** 

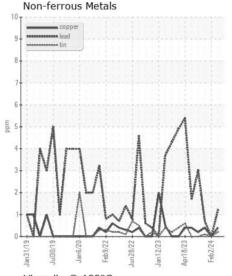
427092-402367

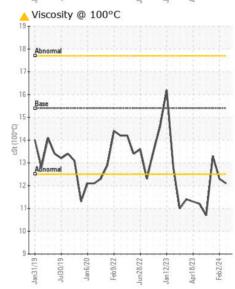
Component
Diesel Engine

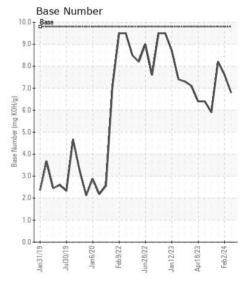
Test	PETRO CANADA DURC	N SHP 15W40 ( GAL)	)						
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.   Machine Age   Inst   Client Info   Machine Age   Machine Age   Inst   Inst   Machine Age   Inst   Ins	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	Historv2	
Sample Date   Client Info   28 Feb 2026   Client Info   28 Feb 2026   Client Info   Colled Info								,	,
Machine Age   hrs   Client Info   18327   18168   18031   1			•				28 Feb 2024	02 Feb 2024	11 Jan 2024
Oil Age   hrs   Client Info   424   265   128		end an early resample to monitor		hrs	Client Info		18327		
Mile	this condition.		Oil Age	hrs	Client Info		424	265	128
			Filter Age	hrs	Client Info		424	265	128
Name			Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Pron			Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
All component wear rates are normal.			Sample Status				ABNORMAL	ABNORMAL	MARGINAL
All component wear rates are normal.	WEAR		Iron	ppm	ASTM D5185m	>100	27	12	3
Name			Chromium	ppm	ASTM D5185m	>20	1	0	0
Silver   ppm   ASTM D5185m   >20	All component wear rates are normal		Nickel	ppm	ASTM D5185m	>4	<1	0	0
Aluminum   ppm   ASTM D5186m   >20   4   2   1			Titanium		ASTM D5185m		27	17	16
Lead			Silver	ppm	ASTM D5185m	>3	0	0	<1
Copper			Aluminum		ASTM D5185m	>20	4	2	1
Tinandium   ppm   ASTM D5185m   < 1   0   < 1     Vanidum   ppm   ASTM D5185m   < 1   0   < 1     Vanidum   ppm   ASTM D5185m   < 1   0   < 1     Vanidum   ppm   ASTM D5185m   < 1   0   < 1     Vanidum			Lead	ppm	ASTM D5185m	>40	1	0	<1
Vanadium   ppm   ASTM D5185m   volume   volum			Copper	ppm	ASTM D5185m	>330	<1	0	<1
White Metal Yellow Metal Tyellow Metal Yellow			Tin	ppm		>15	<1	0	<1
Yellow Metal   Scalar   "Visual   NONE			Vanadium	ppm	ASTM D5185m		<1	0	<1
Silicon   ppm   ASTM D5185m   22   3   1   <1			White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium   Pota			Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.    Fuel	CONTAMINATION		Silicon	ppm	ASTM D5185m	>25	6	6	2
Presence of fuel in the oil.   Water   WC Method   O.2   NEG   N	•	oresent in the oil. Tests confirm the	Potassium	ppm	ASTM D5185m	>20	3	1	
Water   WC Method   So.2   NEG   N			Fuel	%	ASTM D3524	>5	<b>7.4</b>	<b>△</b> 6.5	<b>△</b> 3.5
Soot %			Water			>0.2	NEG	1	
Nitration   Abs/tmm   *ASTM D7624   >20   10.1   8.8   7.3			Glycol						
Sulfation   Absi.tmm   *ASTM D7415   >30   21.0   19.9   18.8								1	
Silt   scalar   *Visual   NONE   NO									
Debris   Scalar   *Visual   NONE   NORML								1	
Sand/Dirt   Scalar *Visual   NONE   NONE   NONE   NONE   Appearance   Scalar *Visual   NORML   NORML									
Appearance									
Codor   Scalar *Visual   NORML   NORML   NORML   Emulsified Water   Scalar *Visual   >0.2   NEG   NEG   NEG   NEG							_		
Emulsified Water   scalar *Visual   >0.2   NEG   NEG   NEG									
Sodium   ppm   ASTM D5185m   0   24   18   12								-	
Boron   ppm   ASTM D5185m   0   24   18   12		 I		Scalar		>0.2	NEG	NEG	INEG
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.    Barium   ppm   ASTM D5185m   0   0   0   0   0   0   0   0   0	FLUID CONDITION			ppm					
oil. The oil is no longer serviceable due to the presence of contaminants.    Molybdenum   ppm   ASTM D5185m   60   73   46   45	oil. The oil is no longer serviceable d							1	
Contaminants.    Molybdenum   ppm   ASTM D5185m   60   73   46   45				ppm					
Magnesium         ppm         ASTM D5185m         1010         1321         871         870           Calcium         ppm         ASTM D5185m         1070         1738         1148         1120           Phosphorus         ppm         ASTM D5185m         1150         1570         1030         1027           Zinc         ppm         ASTM D5185m         1270         1922         1215         1257           Sulfur         ppm         ASTM D5185m         2060         5262         3212         3282           Oxidation         Abs/.1mm         *ASTM D7414         >25         18.3         16.4         15.2           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         6.8         7.6         8.2			-					1	
Calcium         ppm         ASTM D5185m         1070         1738         1148         1120           Phosphorus         ppm         ASTM D5185m         1150         1570         1030         1027           Zinc         ppm         ASTM D5185m         1270         1922         1215         1257           Sulfur         ppm         ASTM D5185m         2060         5262         3212         3282           Oxidation         Abs/.1mm         *ASTM D7414         >25         18.3         16.4         15.2           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         6.8         7.6         8.2									
Phosphorus         ppm         ASTM D5185m         1150         1570         1030         1027           Zinc         ppm         ASTM D5185m         1270         1922         1215         1257           Sulfur         ppm         ASTM D5185m         2060         5262         3212         3282           Oxidation         Abs/.1mm         *ASTM D7414         >25         18.3         16.4         15.2           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         6.8         7.6         8.2			•					1	
Zinc         ppm         ASTM D5185m         1270         1922         1215         1257           Sulfur         ppm         ASTM D5185m         2060         5262         3212         3282           Oxidation         Abs/.1mm         *ASTM D7414         >25         18.3         16.4         15.2           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         6.8         7.6         8.2									
Sulfur         ppm         ASTM D5185m         2060         5262         3212         3282           Oxidation         Abs/.1mm         *ASTM D7414         >25         18.3         16.4         15.2           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         6.8         7.6         8.2								1	
Oxidation         Abs/.1mm         *ASTM D7414         >25         18.3         16.4         15.2           Base Number (BN)         mg KOH/g         ASTM D2896         9.8         6.8         7.6         8.2									
Base Number (BN)         mg KOH/g         ASTM D2896         9.8         6.8         7.6         8.2								1	
								1	













Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109251 Lab Number : 06104910

Unique Number : 10903140

Received **Tested** Diagnosed

: 29 Feb 2024 Test Package: FLEET (Additional Tests: PercentFuel)

: 04 Mar 2024 : 04 Mar 2024 - Wes Davis

1001 South Rockwell Oklahoma City, OK US 73128

GFL Environmental - 891 - Oklahoma City Hauling

Contact: Andy Smith andrew.smith@gflenv.com T: (405)306-1651

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)