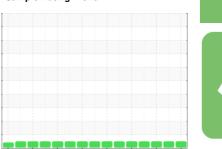


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 713015 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

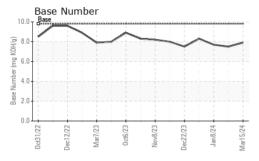
Fluid Condition

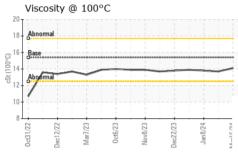
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2			002022 06.	2022 Marzoza Octzoa	23 Nov2023 Dec2023 Jan20		
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		GFL0112215	GFL0098683	GFL0098710
Oil Age hrs Client Info 150 150 150 150 Oil Changed Client Info Not Changd Not Changd	Sample Date		Client Info		15 Mar 2024	23 Feb 2024	08 Jan 2024
Oil Changed Cilient Info Not Changed NORMAL NORMAL NORMAL NORMAL	Machine Age	hrs	Client Info		4082	3426	3982
Sample Status	Oil Age	hrs	Client Info		150	150	150
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG OKEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 5 22 10 Chromium ppm ASTM D5185m >20 <1 1 <1 Nickel ppm ASTM D5185m >20 <1 1 <1 0 Silver ppm ASTM D5185m >2 0 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 0 Icad ppm ASTM D5185m >40 <1 <1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 <	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water Glycol WC Method WC Method >0.2 NEG NEG NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 5 22 10 Chromium ppm ASTM D5185m >20 <1 1 <1 Nickel ppm ASTM D5185m >5 1 6 3 Titanium ppm ASTM D5185m >2 -1 <1 0 Silver ppm ASTM D5185m >20 2 3 1 Silver ppm ASTM D5185m >20 2 3 1 Lead ppm ASTM D5185m >40 <1 <1 0 Copper ppm ASTM D5185m >33.0 <1 1 1 1 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm	CONTAMINATI	ION	method	limit/base	current	history1	history2
Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 5 22 10 Chromium ppm ASTM D5185m >20 <1 1 <1 Nickel ppm ASTM D5185m >5 1 6 3 Silver ppm ASTM D5185m >2 <1 <1 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 2 3 1 Lead ppm ASTM D5185m >40 <1 <1 0 Copper ppm ASTM D5185m >15 <1 2 1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 1 2 2 <th>Fuel</th> <th></th> <th>WC Method</th> <th>>3.0</th> <th><1.0</th> <th><1.0</th> <th><1.0</th>	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 <1	WEAR METALS	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>120	5	22	10
Nickel	Chromium	• •	ASTM D5185m	>20		1	<1
Titanium	Nickel				1	6	3
Silver	Titanium	• •	ASTM D5185m	>2	<1	<1	0
Aluminum							
Lead	Aluminum	• •	ASTM D5185m	>20		3	1
Copper ppm ASTM D5185m >330 <1					<1		
Tin ppm ASTM D5185m >15 <1		• •					
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 <1	• •						1
Cadmium ppm ASTM D5185m 0 <1		• •					0
Boron							
Boron ppm ASTM D5185m 0 1 2 2 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 59 86 58 Manganese ppm ASTM D5185m 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 59 86 58 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 1010 934 1382 979 Calcium ppm ASTM D5185m 1070 1066 1402 1029 Phosphorus ppm ASTM D5185m 1150 997 1355 1013 Zinc ppm ASTM D5185m 1270 1231 1774 1265 Sulfur ppm ASTM D5185m 2060 3165 4249 3107 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 6 3 Sodium ppm ASTM D5185m 2 2 8 3 Potassium ppm ASTM D5185m		nnm		0	1		
Molybdenum ppm ASTM D5185m 60 59 86 58 Manganese ppm ASTM D5185m 0 <1							
Manganese ppm ASTM D5185m 0 <1					-		
Magnesium ppm ASTM D5185m 1010 934 1382 979 Calcium ppm ASTM D5185m 1070 1066 1402 1029 Phosphorus ppm ASTM D5185m 1150 997 1355 1013 Zinc ppm ASTM D5185m 1270 1231 1774 1265 Sulfur ppm ASTM D5185m 2060 3165 4249 3107 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 25 4 6 3 Sodium ppm ASTM D5185m 2 8 3 Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 <t< th=""><th></th><th>• •</th><th></th><th></th><th></th><th></th><th></th></t<>		• •					
Calcium ppm ASTM D5185m 1070 1066 1402 1029 Phosphorus ppm ASTM D5185m 1150 997 1355 1013 Zinc ppm ASTM D5185m 1270 1231 1774 1265 Sulfur ppm ASTM D5185m 2060 3165 4249 3107 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 6 3 Sodium ppm ASTM D5185m 2 8 3 Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method li	· ·						
Phosphorus ppm ASTM D5185m 1150 997 1355 1013 Zinc ppm ASTM D5185m 1270 1231 1774 1265 Sulfur ppm ASTM D5185m 2060 3165 4249 3107 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 6 3 Sodium ppm ASTM D5185m 2 8 3 Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D							
Zinc ppm ASTM D5185m 1270 1231 1774 1265 Sulfur ppm ASTM D5185m 2060 3165 4249 3107 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 6 3 Sodium ppm ASTM D5185m 2 8 3 Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.2 0.5 0.4 Nitration Abs/.1mm *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D							
Sulfur ppm ASTM D5185m 2060 3165 4249 3107 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 6 3 Sodium ppm ASTM D5185m 2 8 3 Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.2 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2		• •					
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 6 3 Sodium ppm ASTM D5185m 2 8 3 Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.2 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2							
Silicon ppm ASTM D5185m >25 4 6 3 Sodium ppm ASTM D5185m 2 8 3 Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.2 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2							
Sodium ppm ASTM D5185m 2 8 3 Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.2 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2					34.73.11	6	
Potassium ppm ASTM D5185m >20 2 2 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.2 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2		• •		720			
INFRA-RED				>20			
Soot % % *ASTM D7844 >4 0.2 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2		РРШ					
Nitration Abs/cm *ASTM D7624 >20 5.7 8.4 7.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2		0/					
Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.6 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2							
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2514.116.015.2							
Oxidation Abs/.1mm *ASTM D7414 >25 14.1 16.0 15.2	Sulfation	Abs/.1mm	^AS IM D7415	>30	18.4	19.6	19.2
	FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.8 7.9 7.5 7.7	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	16.0	15.2
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	7.5	7.7



OIL ANALYSIS REPORT

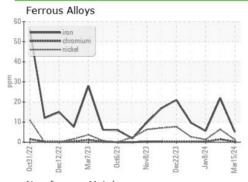


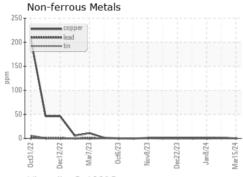


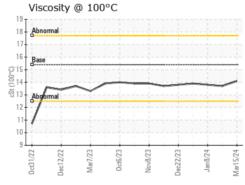
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

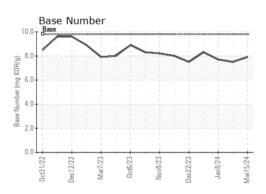
FLUID PROPE	KIIES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.7	13.8

GRAPHS













Laboratory Sample No.

: GFL0112215 Lab Number : 06122225 Unique Number: 10936376 Test Package : FLEET

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

Diagnosed : 20 Mar 2024 - Wes Davis

GFL Environmental - 829 - Wilco Hauling

5054 Highway HH Hartville, MO US 65667

Contact: James Jones james.jones@gflenv.com

T: (417)349-5006

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)