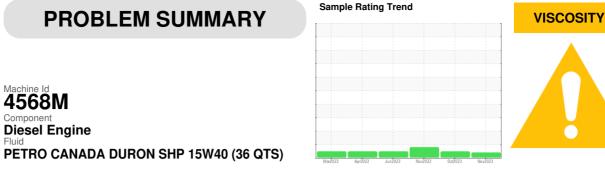
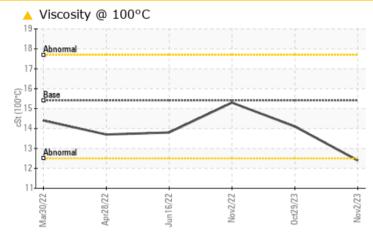


Machine Id 4568M Component **Diesel Engine**



COMPONENT CONDITION SUMMARY

Fluid



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				MARGINAL	NORMAL	ABNORMAL		
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	14.1	15.3		

Customer Id: GFL405 Sample No.: GFL0097691 Lab Number: 06010532 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

HISTORICAL DIAGNOSIS



29 Oct 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report

02 Nov 2022 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



16 Jun 2022 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id 4568M Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 QTS)

SAMPLE INFORMATION method limitbase current history1 history2 Sample Number Client Info 02 Nov 2023 29 Oct 2023 02 Nov 2022 Machine Age hrs Client Info 02 Nov 2023 29 Oct 2023 02 Nov 2022 Oil Age hrs Client Info 02 Nov 2023 18672 18672 Oil Age hrs Client Info 45 1250 18672 Oil Changed Client Info Changed N/A ABNORMAL CONTAMINATION method imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Nickel ppm ASTM 05185 >2 current history1 history2 Iron ppm ASTM 05185 >2 Q Q Q Q Marker ppm ASTM 05185 >2 Q Q Q	· ·		Mar2022	Apr2022 Jun2022	Nov2022 Oct2023	Nov2023	
Sample Date Client Info 02 Nov 2023 29 Oct 2023 02 Nov 2022 Machine Age hrs Client Info 20017 19922 18672 Oil Age hrs Client Info 45 1250 18672 Oil Changed Client Info Changed NCA ABNORMAL Sample Status Imit Dase current history1 History2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WEAR METALS wet Method >5 46 7 A 93 Chromium ppm ASTM 05185m >5 2 1 5 Nickel ppm ASTM 05185m >2 0 0 1 Aluminum ppm ASTM 05185m >2 0 0 0 Aluminum ppm ASTM 05185m >15 4 2 1 0 Aluminum ppm ASTM 05185	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 20017 19922 18672 Oil Age hrs Client Info 45 1250 18672 Oil Changed Client Info 45 1250 18672 Oil Changed Client Info AS Nangel Status NA Sample Status Imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Wear WC Method >0.2 NEG NEG NEG Wear MC Method >0.2 NEG NEG NEG Nickel ppm ASTM D5156m >2 0 0 1 Nickel ppm ASTM D5156m >2 0 0 2 Aluminum ppm ASTM D5156m >2 0 0 2 Copper ppm ASTM D5156m >2 0 0 2 2 Cadmium ppm ASTM D5156m >2	Sample Number		Client Info		GFL0097691	GFL0097668	GFL0059223
Oil Age hrs Client Info 45 1250 18672 Oil Changed Client Info MARGINAL NORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Second NEG NEG Water WC Method >0.2 NEG NEG NEG Second NEG NEG Wetar WC Method >0.2 NEG NEG NEG Second NEG NEG Wetar ppm ASTM D5185m >75 46 7 93 Second 1 Second Second Second Second Second Second Second	Sample Date		Client Info		02 Nov 2023	29 Oct 2023	02 Nov 2022
Oil Changed Client Info Changed Changed N/A Sample Status Image Image MARGINAL NORMAL ABNORMAL CONTAMINATION method Imit/base current history1 Mistory2 Water VC Method >0.2 NEG NEG NEG Bigool Imit/base current history1 history2 Wear VC Method >0.2 NEG NEG NEG Wear ppm ASTM 05185m >75 46 7 493 Chromium ppm ASTM 05185m >2 4 1 0 Nickel ppm ASTM 05185m >2 0 0 1 Muminum ppm ASTM 05185m >2 0 0 0 Aluminum ppm ASTM 05185m >2 0 0 0 Vanadium ppm ASTM 05185m >100 9 2 3 Tin ppm ASTM 05185m >100 9 2 6 Cadmium ppm ASTM 05185m 0 10 0 0 Cadmium ppm ASTM 05185m 0 10 2 6 <td>Machine Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <td>20017</td> <td>19922</td> <td>18672</td>	Machine Age	hrs	Client Info		20017	19922	18672
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Water WC Method >0.2 NEG NEG NEG Glycol WC Method Imit/base current historyl historyl WEAR METALS method Imit/base current historyl historyl Iron ppm ASTM D5185m >5 2 <1 5 Nickel ppm ASTM D5185m >4 0 0 1 Titanium ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 1 Lead ppm ASTM D5185m >2 0 0 1 Copper ppm ASTM D5185m 0 100 2 6 Adminum ppm ASTM D5185m 0 19 2 6	Sample Status				MARGINAL	NORMAL	ABNORMAL
Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >75 46 7 93 Chromium ppm ASTM D5185m >4 0 0 1 Titanium ppm ASTM D5185m >2 4 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
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Iron ppm ASTM D5185m >75 46 7 ● 93 Chromium ppm ASTM D5185m >5 2 <1	WEAR METAL	S	method	limit/base	current	history1	history2
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Titanium ppm ASTM D5185m >2 4 <1 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 2 Lead ppm ASTM D5185m >25 0 0 2 Copper ppm ASTM D5185m >100 9 2 3 Tin ppm ASTM D5185m >100 9 2 3 Cadmium ppm ASTM D5185m >100 0 0 0 Cadmium ppm ASTM D5185m 0 19 2 6 Barium ppm ASTM D5185m 0 19 2 62 Maganese ppm ASTM D5185m 0 4 1 1 Magnesium ppm ASTM D5185m 1010 524 854 971 Calcium ppm ASTM D5185m 1070 1537 10755							
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >15 4 2 15 Lead ppm ASTM D5185m >25 0 0 2 Copper ppm ASTM D5185m >4 <1					-		
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Lead ppm ASTM D5185m >25 0 0 2 Copper ppm ASTM D5185m >100 9 2 3 Tin ppm ASTM D5185m >4 <1 0 <1 Vanadium ppm ASTM D5185m >4 <1 0 <1 Cadmium ppm ASTM D5185m 0 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 19 2 6 Barium ppm ASTM D5185m 0 4 <1 1 Magnesium ppm ASTM D5185m 0 4 <1 1 Magnesium ppm ASTM D5185m 1010 524 854 971 Calcium ppm ASTM D5185m 1150 875 966 1134 Zinc ppm ASTM D5185m 1200 1134 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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Manganese ppm ASTM D5185m 0 4 <1 1 Magnesium ppm ASTM D5185m 1010 524 854 971 Calcium ppm ASTM D5185m 1070 1537 1075 1127 Phosphorus ppm ASTM D5185m 1070 1537 1075 1127 Phosphorus ppm ASTM D5185m 1270 1134 1205 1281 Sulfur ppm ASTM D5185m 2060 2606 2844 3462 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 23 5 14 Sodium ppm ASTM D5185m >20 2 0 6 Potassium ppm ASTM D5185m >20 2 0 1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 1010 524 854 971 Calcium ppm ASTM D5185m 1070 1537 1075 1127 Phosphorus ppm ASTM D5185m 1150 875 966 1013 Zinc ppm ASTM D5185m 1270 1134 1205 1281 Sulfur ppm ASTM D5185m 2060 2606 2844 3462 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 0 6 Potassium ppm ASTM D5185m >20 2 0 6 Soot % % ASTM D7844	Molybdenum	ppm			-	52	62
Calcium ppm ASTM D5185m 1070 1537 1075 1127 Phosphorus ppm ASTM D5185m 1150 875 966 1013 Zinc ppm ASTM D5185m 1270 1134 1205 1281 Sulfur ppm ASTM D5185m 2060 2606 2844 3462 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 23 5 14 Sodium ppm ASTM D5185m >20 2 0 6 Potassium ppm ASTM D5185m >20 2 0 10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >3.0 0.8 <1.0	-	ppm	ASTM D5185m	0	4		1
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Zinc ppm ASTM D5185m 1270 1134 1205 1281 Sulfur ppm ASTM D5185m 2060 2606 2844 3462 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 23 5 14 Sodium ppm ASTM D5185m >20 2 6 Potassium ppm ASTM D5185m >20 2 0 Fuel % ASTM D5185m >20 2 0 Sotium ppm ASTM D5185m >20 2 0 Fuel % ASTM D5185m >20 2 0 Fuel % ASTM D5185m >20 2 0 Soto % % ASTM D7844 >6 0.7 0.1 0.8 Nitration Abs/cm *ASTM D7624 >20 8.5 4.8 15.3 Sulfation Abs/.1m <td< td=""><td>Calcium</td><td>ppm</td><td>ASTM D5185m</td><td>1070</td><td>1537</td><td>1075</td><td>1127</td></td<>	Calcium	ppm	ASTM D5185m	1070	1537	1075	1127
SulfurppmASTM D5185m2060260628443462CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>2523514SodiumppmASTM D5185m20220PotassiumppmASTM D5185m>20220Fuel%ASTM D5185m>20220Fuel%ASTM D5185m>20220Soot %%*ASTM D7824>3.00.8<1.0	Phosphorus	ppm	ASTM D5185m	1150	875	966	1013
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 23 5 14 Sodium ppm ASTM D5185m >25 23 5 14 Sodium ppm ASTM D5185m >20 2 2 0 Potassium ppm ASTM D5185m >20 2 2 0 Fuel % ASTM D3524 >3.0 0.8 <1.0	Zinc	ppm	ASTM D5185m	1270	1134	1205	1281
Silicon ppm ASTM D5185m >25 23 5 14 Sodium ppm ASTM D5185m 4 2 6 Potassium ppm ASTM D5185m >20 2 2 0 Fuel % ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.7 0.1 0.8 Nitration Abs/cm *ASTM D7624 >20 8.5 4.8 15.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.7 17.8 29.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3	Sulfur	ppm	ASTM D5185m	2060	2606	2844	3462
Sodium ppm ASTM D5185m 4 2 6 Potassium ppm ASTM D5185m<>20 2 0 0 Fuel % ASTM D3524 >3.0 0.8 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.7 0.1 0.8 Nitration Abs/cm *ASTM D7624 >20 8.5 4.8 15.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.7 17.8 29.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 2 0 Fuel % ASTM D3524 >3.0 0.8 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.7 0.1 0.8 Nitration Abs/cm *ASTM D7624 >20 8.5 4.8 15.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.7 17.8 29.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3	Silicon	ppm	ASTM D5185m	>25	23	5	14
Fuel % ASTM D3524 >3.0 0.8 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.7 0.1 0.8 Nitration Abs/cm *ASTM D7624 >20 8.5 4.8 15.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.7 17.8 29.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3	Sodium	ppm	ASTM D5185m		4	2	6
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.7 0.1 0.8 Nitration Abs/cm *ASTM D7624 >20 8.5 4.8 15.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.7 17.8 29.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3	Potassium	ppm	ASTM D5185m	>20	2	2	0
Soot % % *ASTM D7844 >6 0.7 0.1 0.8 Nitration Abs/cm *ASTM D7624 >20 8.5 4.8 15.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.7 17.8 29.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3	Fuel	%	ASTM D3524	>3.0	0.8	<1.0	<1.0
Nitration Abs/cm *ASTM D7624 >20 8.5 4.8 15.3 Sulfation Abs/.1mm *ASTM D7415 >30 21.7 17.8 29.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3			method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.7 17.8 29.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3				-	0.7	0.1	0.0
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3		%	*ASTM D7844	>6	0.7	0.1	0.8
Oxidation Abs/.1mm *ASTM D7414 >25 19.1 13.4 31.3	Soot %						
	Soot % Nitration	Abs/cm	*ASTM D7624	>20	8.5	4.8	15.3
Base Number (BN) mg KOH/g ASTM D2896 9.8 9.3 9.3 6.8	Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	8.5 21.7	4.8 17.8	15.3 29.2
	Soot % Nitration Sulfation FLUID DEGRA	Abs/cm Abs/.1mm DATION	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	8.5 21.7 current	4.8 17.8 history1	15.3 29.2 history2

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

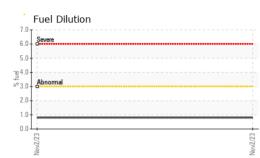
Fuel content negligible. There is no indication of any contamination in the oil.

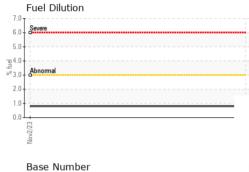
Fluid Condition

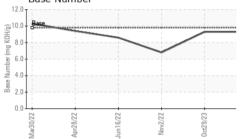
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.



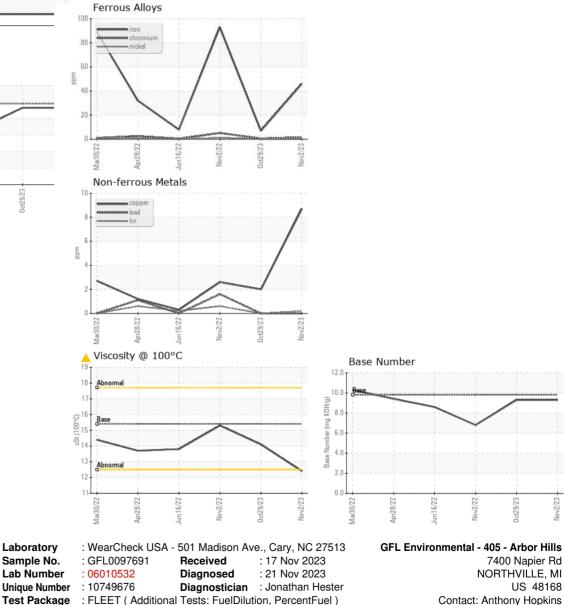
OIL ANALYSIS REPORT







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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	14.1	15.3
GRAPHS						



Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate L2367 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)

ahopkins@gflenv.com

Nov2/23

Т:

F: