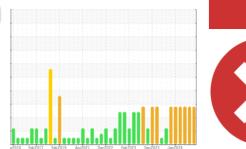


PROBLEM SUMMARY

(DJT517) 10523

Diesel Engine

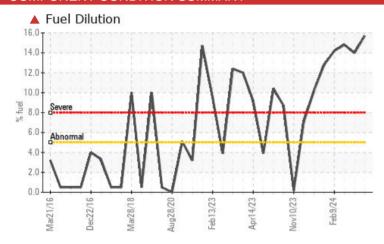
PETRO CANADA DURON SHP 15W40 (--- GAL)

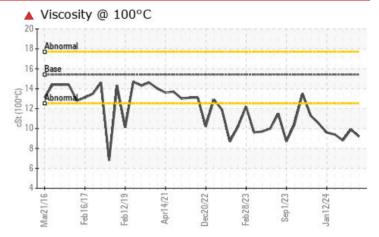


Sample Rating Trend



COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. 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.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	SEVERE			
Fuel	%	ASTM D3524	>5	15.7	1 4.0	1 4.8			
Visc @ 100°C	cSt	ASTM D445	15.4	9.2	A 9.9	8.8			

Customer Id: GFL010 Sample No.: GFL0118064 Lab Number: 06158741 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Fuel/injector System			?	We advise that you check the fuel injection system.			

HISTORICAL DIAGNOSIS

05 Apr 2024 Diag: Wes Davis

15 Feb 2024 Diag: Wes Davis

09 Feb 2024 Diag: Wes Davis

FUEL



We advise that you check the fuel injection system. 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. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



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We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



FUEL





We advise that you check the fuel injection system. 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. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the

viscosity. The oil is no longer serviceable due to the presence of contaminants.



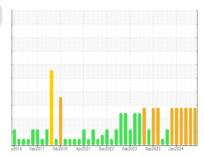


OIL ANALYSIS REPORT

(DJT517) 10523

Diesel Engine

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



Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. 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.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

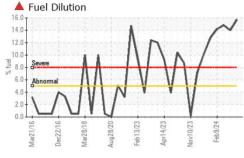
▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

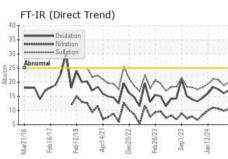
SAMPLE INFORMATION method limit/base current history1 history2	āAL)		w2016 Feb20	17 Feb2019 Apr2021	Dec2022 Feb2023 Sep2023	Jan 2024	
Sample Date Client Info 23 Apr 2024 05 Apr 2024 15 Feb 2024 Machine Age hrs Client Info 24423 24301 23997 Oil Age hrs Client Info 426 304 590 Oil Changed Sample Status Client Info Not Changd SEVERE Not Changd SEVERE SEVERE CONTAMINATION method limit/base current Inistory1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185n -100 16 15 23 Chromium ppm ASTM 05185n -20 0 2 1 Nickel ppm ASTM 05185n -20 0 -1 -1 Silver ppm ASTM 05185n -20 0 -1 -1 Silver ppm ASTM 05185n -20 0 -1 -1 Silver ppm ASTM 05185n -20 0	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 23 Apr 2024 05 Apr 2024 15 Feb 2024 Machine Age hrs Client Info 24423 24301 23997 Oil Age hrs Client Info 426 304 590 Oil Changed Client Info Not Changd SEVERE SEVERE SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >100 16 15 23 Chromium ppm ASTM 05185m >20 0 2 1 Ilver ppm ASTM 05185m >3 0 <1	Sample Number		Client Info		GFL0118064	GFL0115723	GFL0112298
Machine Age hrs Client Info 24423 24301 23997 Oil Age hrs Client Info 426 304 590 Oil Changed Client Info Not Changed SEVERE SEVERE Sample Status "Client Info Not Changed SEVERE SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method NeG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 16 15 23 Chromium ppm ASTM D5185m >20 0 2 1 Nickel ppm ASTM D5185m >30 0 <1			Client Info		23 Apr 2024	05 Apr 2024	15 Feb 2024
Oil Changed Sample Status Client Info Not Changd SEVERE Not Changd SEVERE Changed SEVERE	Machine Age	hrs	Client Info		24423	24301	23997
Sample Status	Oil Age	hrs	Client Info		426	304	590
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 16 15 23 Chromium ppm ASTM D5185m >20 0 2 1 Nickel ppm ASTM D5185m >4 0 <1	Oil Changed		Client Info		Not Changd	Not Changd	Changed
Water Glycol WC Method (Plycol) >0.2 NEG (Plycol) Neg (Plycol) </td <td>Sample Status</td> <td></td> <td></td> <td></td> <th>SEVERE</th> <td>SEVERE</td> <td>SEVERE</td>	Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS method Imitibase current history1 history2 Iron ppm ASTM D5185m >100 16 15 23 Chromium ppm ASTM D5185m >20 0 2 1 Nickel ppm ASTM D5185m >4 0 <1 0 Silver ppm ASTM D5185m >3 0 <1 0 Aluminum ppm ASTM D5185m >30 0 <1 0 Aluminum ppm ASTM D5185m >40 0 <1 0 Lead ppm ASTM D5185m >40 0 <1 0 Copper ppm ASTM D5185m >15 0 <1 <1 0 Vanadium ppm ASTM D5185m 0 <1 0 <1 0 Cadmium ppm ASTM D5185m 0 3 8 2 Barium ppm ASTM D5185m 0	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 16 15 23 Chromium ppm ASTM D5185m >20 0 2 1 Nickel ppm ASTM D5185m >4 0 <1	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 0 2 1 Nickel ppm ASTM D5185m >4 0 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>100	16	15	23
Titanium ppm ASTM D5185m 0 <1 <1 Silver ppm ASTM D5185m >3 0 <1	Chromium	ppm	ASTM D5185m	>20	0	2	1
Silver ppm ASTM D5185m >3 0 <1 0 Aluminum ppm ASTM D5185m >20 0 3 2 Lead ppm ASTM D5185m >40 0 <1 0 Copper ppm ASTM D5185m >330 0 2 2 Tin ppm ASTM D5185m >15 0 <1 <1 Vanadium ppm ASTM D5185m 0 <1 <1 Cadmium ppm ASTM D5185m 0 <1 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 3 8 2 Boron ppm ASTM D5185m 0 3 8 2 Boron ppm ASTM D5185m 0 0 <1 <1 Malaryan ppm ASTM D5185m 0 0 <1	Nickel	ppm	ASTM D5185m	>4	0	<1	0
Aluminum ppm ASTM D5185m >20 0 3 2 Lead ppm ASTM D5185m >40 0 <1	Titanium	ppm	ASTM D5185m		0	<1	<1
Lead ppm ASTM D5185m >40 0 <1 0 Copper ppm ASTM D5185m >330 0 2 2 Tin ppm ASTM D5185m >15 0 <1 <1 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 3 8 2 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 <1 <1 <1 Calcium ppm ASTM D5185m 1010 741 741 741 660 Calium ppm ASTM D5185m 1010 865	Silver	ppm	ASTM D5185m	>3	0	<1	0
Copper ppm ASTM D5185m >330 0 2 2 Tin ppm ASTM D5185m >15 0 <1	Aluminum	ppm	ASTM D5185m	>20	0	3	2
Tin ppm ASTM D5185m >15 0 <1 <1 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 3 8 2 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 53 56 45 Manganese ppm ASTM D5185m 0 0 <1	Lead	ppm	ASTM D5185m	>40	0	<1	0
Vanadium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 3 8 2 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 1010 741 741 660 Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current hist	Copper	ppm	ASTM D5185m	>330	0	2	2
Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 3 8 2 Barium ppm ASTM D5185m 0 0 0 0 0 Molydenum ppm ASTM D5185m 0 0 -1 -1 Manganese ppm ASTM D5185m 0 0 -1 -1 Magnesium ppm ASTM D5185m 1010 741 741 660 Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25	Tin	ppm	ASTM D5185m	>15	0	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 3 8 2 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 53 56 45 Manganese ppm ASTM D5185m 0 0 -1 -1 Magnesium ppm ASTM D5185m 1010 741 741 660 Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20	Vanadium	ppm	ASTM D5185m		0	<1	0
Boron ppm ASTM D5185m 0 3 8 2 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 53 56 45 Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 1010 741 741 660 Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1150 865 818 709 Zinc ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m >2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20	Cadmium	ppm	ASTM D5185m		0	<1	0
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 53 56 45 Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 1010 741 741 660 Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1150 865 818 709 Zinc ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >225 6 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 <t< th=""><th>ADDITIVES</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 53 56 45 Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 1010 741 741 660 Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1150 865 818 709 Zinc ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D5185m >20 0 2 0 14.8 INFRA-RED method <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <th>3</th> <td>8</td> <td>2</td>	Boron	ppm	ASTM D5185m	0	3	8	2
Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 1010 741 741 660 Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1150 865 818 709 Zinc ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D5185m >20 0 2 0 14.8 INFRA-RED method limit/base current history1 history2 Soot % %	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 1010 741 741 660 Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1150 865 818 709 Zinc ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D5185m >20 0 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20	Molybdenum	ppm	ASTM D5185m	60	53	56	45
Calcium ppm ASTM D5185m 1070 949 905 799 Phosphorus ppm ASTM D5185m 1150 865 818 709 Zinc ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 >5 15.7 14.0 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415	Manganese	ppm	ASTM D5185m	0	0	<1	<1
Phosphorus ppm ASTM D5185m 1150 865 818 709 Zinc ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 >5 ▲ 15.7 ▲ 14.0 ▲ 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >3 0.6 0.5 0.7 Nitration Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION *ASTM D7414	Magnesium	ppm	ASTM D5185m	1010	741	741	660
Zinc ppm ASTM D5185m 1270 1038 1012 885 Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Potassium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 >5 ▲ 15.7 ▲ 14.0 ▲ 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 10.4 9.9 10.6 Nitration Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm	Calcium	ppm	ASTM D5185m	1070	949	905	799
Sulfur ppm ASTM D5185m 2060 2811 2437 2154 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m >20 0 2 0 Potassium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 >5 15.7 14.0 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.7 Nitration Abs/.mm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *	Phosphorus	ppm	ASTM D5185m	1150	865	818	709
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m 3 4 5 Potassium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 >5 ▲ 15.7 ▲ 14.0 ▲ 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	Zinc	ppm	ASTM D5185m	1270	1038	1012	885
Silicon ppm ASTM D5185m >25 6 8 8 Sodium ppm ASTM D5185m 3 4 5 Potassium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 >5 ▲ 15.7 ▲ 14.0 ▲ 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	Sulfur	ppm	ASTM D5185m	2060	2811	2437	2154
Sodium ppm ASTM D5185m 3 4 5 Potassium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 >5 ▲ 15.7 ▲ 14.0 ▲ 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 2 0 Fuel % ASTM D3524 >5 ▲ 15.7 ▲ 14.0 ▲ 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	Silicon	ppm	ASTM D5185m	>25	6	8	8
Fuel % ASTM D3524 >5 ▲ 15.7 ▲ 14.0 ▲ 14.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	Sodium	ppm	ASTM D5185m		3	4	5
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	Potassium	ppm	ASTM D5185m	>20	0	2	0
Soot % % *ASTM D7844 >3 0.6 0.5 0.7 Nitration Abs/cm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	Fuel	%	ASTM D3524	>5	▲ 15.7	1 4.0	1 4.8
Nitration Abs/cm *ASTM D7624 >20 10.4 9.9 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.9 20.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	Soot %	%	*ASTM D7844	>3	0.6	0.5	0.7
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.1 16.1 17.4	0001 70			- 20	10.4	0 0	10.6
Oxidation		Abs/cm	*ASTM D7624	>20	10.4	5.5	10.0
	Nitration						
	Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	18.9	20.8
	Nitration Sulfation FLUID DEGRA	Abs/.1mm	*ASTM D7415 method	>30 limit/base	19.8 current	18.9 history1	20.8 history2

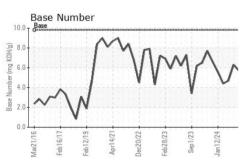


OIL ANALYSIS REPORT



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0							

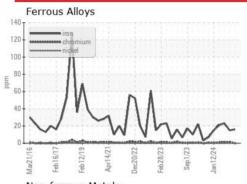


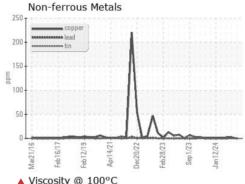


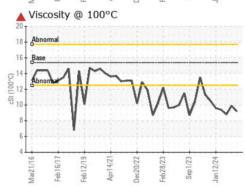
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

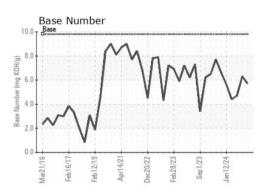
FLUID PROP	ERHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 9.2	9.9	8.8

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118064

Lab Number : 06158741

Unique Number : 10994164

Received : 24 Apr 2024 **Tested** : 25 Apr 2024 : 25 Apr 2024 - Angela Borella Diagnosed

Test Package : FLEET (Additional Tests: PercentFuel)

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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Report Id: GFL010 [WUSCAR] 06158741 (Generated: 04/25/2024 16:18:13) Rev: 1

Submitted By: JOSHUA TINKER