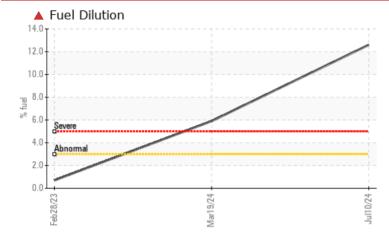


PETRO CANADA DURON SHP 15W40 (--- GAL)



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	C TEST	RESULT	S			
Sample Status				SEVERE	SEVERE	NORMAL
Fuel	%	ASTM D3524	>3.0	12.6	5 .9	<1.0

Customer Id: GFL983 Sample No.: GFL0128762 Lab Number: 06238926 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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



19 Mar 2024 Diag: Sean Felton

We advise that you check the fuel injection system. Oil and filter 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. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



view report



03 Jan 2024 Diag: Sean Felton

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.



10 Oct 2023 Diag: Don Baldridge

NORMAL

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



Machine Id 413067

Component Diesel Engine PETRO CANADA DURON SHP 15W40 (--- GAL)

SAMPLE INFORMATION method

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

Metal levels are typical for a new component breaking in.

Contamination

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

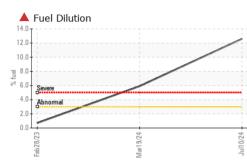
Fluid Condition

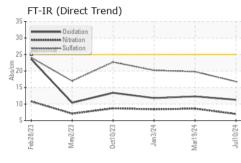
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

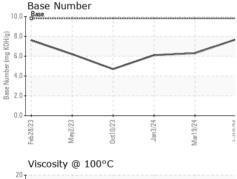
Oil ChangedClient InfoNot ChangedChangedChangedSample StatusIImit /baseSEVERESEVERENORMALCONTAMINATIONmethodImit/basecurrenthistory1history2WaterWC Method>0.2NEGNEGNEGGlycolWC MethodVEGNEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>120346ChromiumppmASTM D5185m>2000<1NickelppmASTM D5185m>2000SilverppmASTM D5185m>2000AluminumppmASTM D5185m>20<1112LeadppmASTM D5185m>330<11<12CopperppmASTM D5185m>330<1<12TinppmASTM D5185m>15000VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m0000BoronppmASTM D5185m0000BariumppmASTM D5185m0000MotybdenumppmASTM D5185m0000MotybdenumppmASTM D5185m0000Motybdenumppm<	Sample Number		Client Info		GFL0128762	GFL0112100	GFL0105493
Oil Age mis Client Info 70283 54608 46251 Oil Changed Client Info Not Changed Changed Changed Severe Normal Sample Status WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Witer WC Method >0.2 NEG NEG NEG Silver ppm ASTM D5185n >12.0 3 4 6 Chromium ppm ASTM D5185n >2.2 0 0 0 Silver ppm ASTM D5185n >2.2 0 0 0 Copper ppm ASTM D5185n >3.30 <1 -1 2 Tin ppm <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>10 Jul 2024</th> <th>19 Mar 2024</th> <th>03 Jan 2024</th>	Sample Date		Client Info		10 Jul 2024	19 Mar 2024	03 Jan 2024
Oli Changed Sample StatusClient InfoNot Changed SEVEREChanged SEVEREChanged NORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>0.2NEGNEGNEGGlycolWC Method>0.2NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTMD5185>2000<1OkcelppmASTMD5185>2000<1IkkelppmASTMD5185>22000IkkelppmASTMD5185>22000IkkelppmASTMD5185>22000IkkelppmASTMD5185>20000IkinamppmASTMD5185>330<1<12LeadppmASTMD5185>330<1<12VanadiumppmASTMD51850000QadmiumppmASTMD51850000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTMD5185100000ASTMD518500000MaganeseppmASTMD51851070288728332590PhosphorusppmASTMD5185120121214151242Silicon <th>Machine Age</th> <th>mls</th> <th>Client Info</th> <th></th> <th>70263</th> <th>54608</th> <th>46251</th>	Machine Age	mls	Client Info		70263	54608	46251
Sample Status Imit base SEVERE SEVERE NORMAL CONTAMINATION method imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASIM D5185m >120 3 4 6 Chromium ppm ASIM D5185m >120 0 0 0 Nickel ppm ASIM D5185m >20 0 0 0 Silver ppm ASIM D5185m >20 <1 1 0 0 Cadmium ppm ASIM D5185m >40 0 <1 0 0 Cadmium ppm ASIM D5185m >15 0 0 0 0 Cadmium ppm ASIM D5185m 0 0 0	Oil Age	mls	Client Info		70263	54608	46251
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 3 4 6 Chromium ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >20 0 0 0 Silver ppm ASTM D5185m >20 <1 1 2 Lead ppm ASTM D5185m >20 <1 0 0 Copper ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Roron ppm ASTM D5185m 0 0 0 0	Oil Changed		Client Info		Not Changd	Changed	Changed
Water WC Method >0.2 NEG NEG NEG Glycol WC Method imit/base current history1 history2 Iron ppm ASTM D5185m >120 3 4 6 Chromium ppm ASTM D5185m >5 0 0 <1 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Auminum ppm ASTM D5185m >20 <1 1 2 Lead ppm ASTM D5185m >20 <1 1 2 Copper ppm ASTM D5185m >30 <1 <1 2 Laad ppm ASTM D5185m >15 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 <	Sample Status				SEVERE	SEVERE	NORMAL
River NEC NEC NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >2 <1 0 0 Silver ppm ASTM D5185m >2 <1 1 2 Lead ppm ASTM D5185m >20 <1 1 2 Lead ppm ASTM D5185m >330 <1 <1 2 Lead ppm ASTM D5185m >330 <1 <1 2 Cadmium ppm ASTM D5185m >15 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm A	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >120 3 4 6 Chromium ppm ASTM 05185m >20 0 0 <1 Nickel ppm ASTM 05185m >20 0 0 0 Silver ppm ASTM 05185m >20 <1 0 0 Aluminum ppm ASTM 05185m >20 <1 1 2 Lead ppm ASTM 05185m >20 <1 0 0 Copper ppm ASTM 05185m >330 <1 <1 2 Cadmium ppm ASTM 05185m 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 <t< th=""><th>Water</th><th></th><th>WC Method</th><th>>0.2</th><th>NEG</th><th>NEG</th><th>NEG</th></t<>	Water		WC Method	>0.2	NEG	NEG	NEG
Iron ppm ASTM D5185m >120 3 4 6 Chromium ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 <1 1 2 Lead ppm ASTM D5185m >20 <1 0 0 Copper ppm ASTM D5185m >20 <1 <1 0 Cadmium ppm ASTM D5185m >330 <1 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 1010 11 9 10 225 5 5 5 5	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 0 0 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >5 0 0 0 Titanium ppm ASTM D5185m >2 <1 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 <1 1 2 Lead ppm ASTM D5185m >20 <1 1 2 Copper ppm ASTM D5185m >40 0 <1 2 Tin ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m >15 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 0 Magnese ppm ASTM D5185m 0 <1 0 0 Calcium ppm ASTM D5185m 1010 11	Iron	ppm	ASTM D5185m	>120	3	4	6
Titanium ppm ASTM D5185m >2 <1	Chromium	ppm	ASTM D5185m	>20	0	0	<1
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 <1 1 2 Lead ppm ASTM D5185m >40 0 <1 0 Copper ppm ASTM D5185m >330 <1 <1 2 Tin ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m >15 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 -<1 0 0 Marganese ppm ASTM D5185m 0 <1 0 0 Calcium ppm ASTM D5185m 1010 11 9 10 Calcium ppm ASTM D5185m 1070 2887	Nickel	ppm	ASTM D5185m	>5	0	0	0
Aluminum ppm ASTM D5185m >20 <1	Titanium	ppm	ASTM D5185m	>2	<1	0	0
Lead ppm ASTM D5185m >40 0 <1	Silver	ppm	ASTM D5185m	>2	0		0
Copper ppm ASTM D5185m >330 <1	Aluminum	ppm	ASTM D5185m	>20	<1	1	2
Tin ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 0 0 Manganese ppm ASTM D5185m 0 <1 0 0 Calcium ppm ASTM D5185m 1010 11 9 10 Calcium ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1270 1212 1415 1242 Sulfur ppm ASTM D5185m >25 4 <t< th=""><th>Lead</th><th>ppm</th><th>ASTM D5185m</th><th>>40</th><th>0</th><th><1</th><th>0</th></t<>	Lead	ppm	ASTM D5185m	>40	0	<1	0
Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 0 Maganese ppm ASTM D5185m 0 0 <1	Copper	ppm	ASTM D5185m	>330	<1	<1	2
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 0 Marganese ppm ASTM D5185m 0 0 <1	Tin	ppm	ASTM D5185m	>15	0	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Malganese ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 0 <1 0 0 Calcium ppm ASTM D5185m 0 <1 0 0 Galcium ppm ASTM D5185m 1010 11 9 10 Calcium ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1270 1212 1415 1242 Sulfur ppm ASTM D5185m 2060 3494 4100 3389 CONTAMINANTS method limit/base current history1 history2 Solium ppm ASTM D5185m >20 <	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 60 37 55 50 Manganese ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 1010 11 9 10 Calcium ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1070 1212 1415 1242 Sulfur ppm ASTM D5185m 1270 1212 1415 1242 Sulfur ppm ASTM D5185m >2060 3494 4100 3389 CONTAMINANTS method Imit/base current history1 history2 Sodium ppm<	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 60 37 55 50 Manganese ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 1010 11 9 10 Calcium ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1070 1212 1415 1242 Sulfur ppm ASTM D5185m 1270 1212 1415 1242 Sulfur ppm ASTM D5185m 2060 3494 4100 3389 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 1 4 5 Fuel % AS	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 37 55 50 Manganese ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 1010 11 9 10 Calcium ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1070 1212 1415 1242 Sulfur ppm ASTM D5185m 2060 3494 4100 3389 CONTAMINANTS method limit/base current history1 history2 Sulfur ppm ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m	Boron	ppm	ASTM D5185m	0	0	0	0
Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 1010 11 9 10 Calcium ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1150 1021 1206 1082 Zinc ppm ASTM D5185m 1150 1021 1415 1242 Sulfur ppm ASTM D5185m 2060 3494 4100 3389 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 7 Sodium ppm ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Soot % % *ASTM D7844 >4 0.1<	Molybdenum	ppm	ASTM D5185m	60	37	55	
Calcium ppm ASTM D5185m 1070 2887 2833 2590 Phosphorus ppm ASTM D5185m 1150 1021 1206 1082 Zinc ppm ASTM D5185m 1270 1212 1415 1242 Sulfur ppm ASTM D5185m 2060 3494 4100 3389 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 7 Sodium ppm ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Fuel % ASTM D3524 >3.0 12.6 5.9 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.1 0.2 0.2 Nitration Abs/.mm *ASTM D7624 >2	Manganese	ppm		0	<1		
Phosphorus ppm ASTM D5185m 1150 1021 1206 1082 Zinc ppm ASTM D5185m 1270 1212 1415 1242 Sulfur ppm ASTM D5185m 2060 3494 4100 3389 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 7 Sodium ppm ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Soot % % ASTM D7844 >3.0 12.6 5.9 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.0	0	ppm		1010	11		
Zinc ppm ASTM D5185m 1270 1212 1415 1242 Sulfur ppm ASTM D5185m 2060 3494 4100 3389 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 7 Sodium ppm ASTM D5185m >25 4 5 7 Sodium ppm ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Fuel % ASTM D524 >3.0 12.6 5.9 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.1 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 8.6 8.4 Sulfation Abs/.1mm *ASTM D7415 >30		ppm		1070			
SulfurppmASTM D5185m2060349441003389CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25457SodiumppmASTM D5185m>201212PotassiumppmASTM D5185m>20145Fuel%ASTM D5185m>20145SodiumppmASTM D5185m>20145Fuel%ASTM D524>3.012.65.9<1.0INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.10.20.2NitrationAbs/cm*ASTM D7624>207.08.68.4SulfationAbs/lim*ASTM D7415>3016.819.820.2FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2511.312.311.8	•	ppm			-		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>25457SodiumppmASTM D5185m212PotassiumppmASTM D5185m>20145Fuel%ASTM D5185m>20145SodiumppmASTM D5185m>20145Fuel%ASTM D5124>3.012.65.9<1.0INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.10.20.2NitrationAbs/cm*ASTM D7624>207.08.68.4SulfationAbs/lim*ASTM D7415>3016.819.820.2FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/lim*ASTM D7414>2511.312.311.8	-	ppm					
Silicon ppm ASTM D5185m >25 4 5 7 Sodium ppm ASTM D5185m 2 1 2 Potassium ppm ASTM D5185m >20 1 4 5 Fuel % ASTM D5185m >20 1 4 5 Fuel % ASTM D3524 >3.0 12.6 ▲ 5.9 <1.0		• •	ASTM D5185m		3494	4100	3389
Sodium ppm ASTM D5185m 2 1 2 Potassium ppm ASTM D5185m<>20 1 4 5 Fuel % ASTM D5185m<>20 1 4 5 Fuel % ASTM D5185m<>20 1 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844<>4 0.1 0.2 0.2 Nitration Abs/cm *ASTM D7624<>20 7.0 8.6 8.4 Sulfation Abs/.1mm *ASTM D7415<>30 16.8 19.8 20.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414<>25 11.3 12.3 11.8		TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 4 5 Fuel % ASTM D3524 >3.0 12.6 5.9 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.1 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 8.6 8.4 Sulfation Abs/.1mm *ASTM D7415 >30 16.8 19.8 20.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 11.3 12.3 11.8		ppm	ASTM D5185m	>25	-		
Fuel % ASTM D3524 >3.0 12.6 5.9 <1.0		ppm			_		
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.1 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 8.6 8.4 Sulfation Abs/.tmm *ASTM D7415 >30 16.8 19.8 20.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 11.3 12.3 11.8	Potassium			>20			
Soot % % *ASTM D7844 >4 0.1 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 8.6 8.4 Sulfation Abs/.1mm *ASTM D7415 >30 16.8 19.8 20.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 11.3 12.3 11.8	Fuel	%	ASTM D3524	>3.0	12.6	▲ 5.9	<1.0
Nitration Abs/cm *ASTM D7624 >20 7.0 8.6 8.4 Sulfation Abs/.1mm *ASTM D7415 >30 16.8 19.8 20.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 11.3 12.3 11.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 16.8 19.8 20.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 11.3 12.3 11.8		%		>4			
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 11.3 12.3 11.8	Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.6	8.4
Oxidation Abs/.1mm *ASTM D7414 >25 11.3 12.3 11.8	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8	19.8	20.2
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.8 7.7 6.3 6.1	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.3	12.3	11.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	6.3	6.1

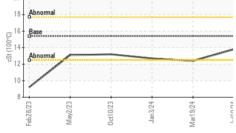


OIL ANALYSIS REPORT

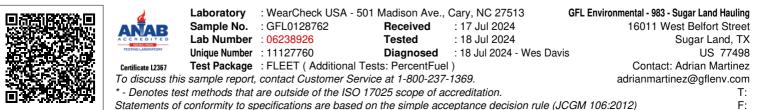








VISUAL		method	limit/base	current	history1	history
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	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	20.L	NEG	NEG	NEG
				NEG		
FLUID PROPER		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	12.4	12.7
GRAPHS						
Ferrous Alloys						
0 iron		1				
5						
0 - nickel						
5						
5-			_			
		44				
Feb28/23 May2/23 0ct10/23	Jan3/24	Mar19/24	Jul10/24			
_		PM	٦٢			
Non-ferrous Metals						
0 copper		I I				
essessesses lead						
0 tin		1				
0						
	m3/24	19/24	110/24			
Feb28/23	Jan3/24	Mar19/24	Jult 0,24			
Viscosity @ 100°C	Jan3/24	Mar19/24	Jult0/24	Base Numbe	r	
Feb28/23	Jan324	Mar19/24	http://www.com/com/com/com/com/com/com/com/com/com/	Base Numbe	r	
Viscosity @ 100°C	Jan3/24	Mar19/24	10.0	Base Numbe	r	
Viscosity @ 100°C	Jan3,724	Mar19/24	10.0	Base Numbe	r	
Viscosity @ 100°C	Jan3.74	Mar19/24	10.0	Base Numbe	r	
Viscosity @ 100°C	Jan3.74	Mar19/24	10.0	Base Numbe	r	
Viscosity @ 100°C	Jan3.74	Mar19/24	10.0	Base Numbe	r	
Viscosity @ 100°C	Jan3.74	Mar19/24	10.0 (6)HOX 000 HOX 00	Base Numbe	r	
Viscosity @ 100°C	Jan3.74	Mar19/24	0.0 8.0 0.0 HOX 0.0 MCM 0.0 0.0 Jun 0.0	Base Numbe	r	
Viscosity @ 100°C	Jan3/24	Mar19/24	10.0 (DHO) 8.0 (DHO) 6.0 (DHO) 6.0 (DHO) 8.0 (DHO) 6.0 (DHO) 8.0 (DHO) 6.0 (DHO) 8.0 (DHO) 6.0 (DHO) 6.0 (DHO) 8.0 (DHO) 6.0 (DHO) 6.0 (DHO) 8.0 (DHO) 8.0 (Base Numbe	r	
Viscosity @ 100°C	Jan 3.24	Mari 9.24 - Mari 9.24	10.0 (6)HOX 000 HOX 00	Base Numbe	0ct10/23	Mart 9/24



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT

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