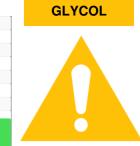


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 923018 Component

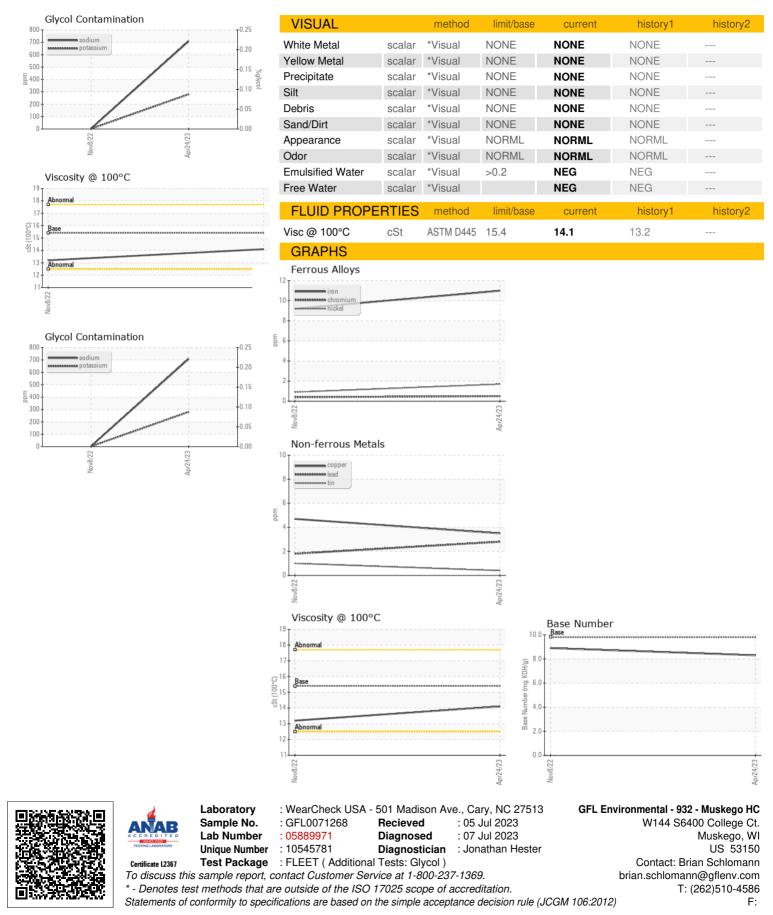
Diesel Engine Fluid

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

Recommendation Sample Number Client Info GFL0071268 GFL0060639 We advise that you check for the source of the oolant leak. Check for low coolant level. We ecommend an early resample to monitor this ondition. Sample Date Client Info 24 Apr 2023 08 Nov 2022 Machine Age hrs Client Info 24731 23664 Vear Oil Age hrs Client Info 24731 23664 Oil Changed Client Info 24731 23664 Vear Oil Changed Client Info Not Changd Oil Changed Client Info Not Changd Oil Changed Client Info Not Changd Sample Status Imit/base current history1 history2 Sodium and/or potassium levels are high. Fuel WC Method >3.0 <1.0 Wear WC Method >0.2 NEG NEG Wear Wear Wear Imit/base ourrent history1 hist	DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Date Client Info P4 p4/2 p22 08 Nov 2022 ··· Sample Date Client Info 24731 23844 ··· Oall Age hrs Client Info 24731 23844 ··· Oall Age hrs Client Info Not Change ··· ··· Oall Age hrs Client Info Not Change ··· ··· Contamination Contamination Not Change ··· Not Change Not Change ··· Not Change Not Change Not Change								
 notation Age in so Client Into 2473 23664 veramed an early resample to monitor this ordition. Ker at component wear rates are normal. Constmination dotted are rates are normal. Constmination dotted are high. Fuel CONTAMINATION method into 5 suitable kislanity remaining in the oil. Ker at a sub sub sub sub sub sub sub sub sub sub								
commandiance Did Age hrs Cilent Info 24731 23864 Vear all component wear rates are normal. Contamination Contamination ABNORMAL Sample Status method limitbase current Natoryl Fuel Condition hts of the origination solution solution Nickel ppm ASTI/D585 Solution NEG Nickel ppm ASTI/D585 Solution	coolant leak. Check for low coolant level. We		hre			-		
Oracleon. Olicency Client Info Not Changed Not Changed <t< td=""><td>recommend an early resample to monitor this</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	recommend an early resample to monitor this	-						
Year Sample Status Image Main Moread Noread Nore	condition.	-	1113			-		
CONTAMINATION method limit/base current history1 history2 Solutian and/or potassium levels are high. Fluid WC Method >3.0 <1.0	Wear	•				-		
Fuel WC Method >3.0 <1.0 <1.0 Puel WC Method >3.0 <1.0	All component wear rates are normal.					ABNORMAL		
Fluid Condition Water WC Method >0.2 NEG NEG	Contamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
Me BN result indicates that there is suitable WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05168n >12.0 11 9 Chromium ppm ASTM 05168n >2.2 0.1 <-1	Sodium and/or potassium levels are high.	Fuel		WC Method	>3.0	<1.0	<1.0	
Weak ME IALS method introlog current intelopy intelopy Iron ppm ASTM D516m >120 11 9	Fluid Condition	Water		WC Method	>0.2	NEG	NEG	
Chromium ppm ASTM D5185m >20 <1	The BN result indicates that there is suitable alkalinity remaining in the oil.	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D51550 >2 Q Q Q Q Titanium ppm ASTM D51550 >2 Q Q Q Q Silver ppm ASTM D51550 >2 Q Q Q Q Auminum ppm ASTM D51550 >20 3 3 Q Q Cooper ppm ASTM D51550 >340 3 Q Q Q Cooper ppm ASTM D51550 >300 4 S Q Q Q Q Q Vanadium ppm ASTM D51550 Q <t< td=""><td>-</td><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>>120</td><td>11</td><td>9</td><td></td></t<>	-	Iron	ppm	ASTM D5185m	>120	11	9	
Titanium ppm ASTM D5185m >20 0 <1 Silver ppm ASTM D5185m >20 0 0 Auminum ppm ASTM D5185m >20 3 3 Lead ppm ASTM D5185m >40 3 2 Copper ppm ASTM D5185m >40 3 2 Vanadium ppm ASTM D5185m >15 <1 1 Vanadium ppm ASTM D5185m >15 <1 1 ADDITIVES method limitbas current history! history! history! Boron ppm ASTM D5185m 0 16 26 Manganese ppm ASTM D5185m 0 111 47 Manganese ppm ASTM D5185m 100 97 848 Manganese ppm ASTM D5185m 1070 1116 1398 Sulfur ppm AS		Chromium	ppm	ASTM D5185m	>20	<1	<1	
Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >20 3 2 Lead ppm ASTM D5185m >330 4 5 Copper ppm ASTM D5185m >330 4 5 Tin ppm ASTM D5185m >15 <1		Nickel	ppm	ASTM D5185m	>5	2	<1	
Aluminum ppm ASTM D5186m >20 3 3 Lead ppm ASTM D5186m >40 3 2 Copper ppm ASTM D5186m >40 5 Tin ppm ASTM D5186m >15 <1		Titanium	ppm	ASTM D5185m	>2	0	<1	
Lead ppm ASTM D5165m >>40 3 2 Copper ppm ASTM D5165m >>33.0 4 5 Tin ppm ASTM D5165m >>15 <1		Silver	ppm	ASTM D5185m	>2	0	0	
Copper ppm ASTM D5185m >330 4 5 Tin ppm ASTM D5185m >15 <1		Aluminum	ppm	ASTM D5185m	>20	3	3	
Copper ppm ASTM D5185m >330 4 5 Tin ppm ASTM D5185m >15 <1		Lead	ppm			3	2	
TinppmASTM D5185m>15<11VanadiumppmASTM D5185m00<10		Copper		ASTM D5185m	>330	4	5	
Vanadium ppm ASTM D5185m 0 <1 Cadmium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 16 26 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 111 47 Manganese ppm ASTM D5185m 1010 972 677 Calcium ppm ASTM D5185m 1070 1116 1398 Magnesium ppm ASTM D5185m 1270 1315 1059 Calcium ppm ASTM D5185m 260 3672 2974 Sulfur ppm ASTM D5185m 225 12 6 Sodium ppm ASTM D5185m >20 280 20						<1	1	
CadmiumpmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m01626BariumppmASTM D5185m000MolybdenumppmASTM D5185m6011147MagnesiumppmASTM D5185m1010972677CalciumppmASTM D5185m107011161398PhosphorusppmASTM D5185m107011161398ZincppmASTM D5185m127013151059SulfurppmASTM D5185m206036722974SodiumppmASTM D5185m>25126PotassiumppmASTM D5185m>25126SodiumpmASTM D5185m>202RINFRA-REDmethodlimit/basecurrenthistory1history2Sooti %%*ASTM D7644>2010.48.1NitrationAbs/m*ASTM D7415>30020.521.3FLUID DEGRA-DTIONmethodlimit/basecurrenthistory1history2Sotiation%*ASTM D7415>3020.521.3NitrationAbs/m*ASTM D7415>3020.521.3Sulfation <td< td=""><td></td><td></td><td></td><td></td><td></td><td><1</td><td></td></td<>							<1	
BoronppmASTM D518sm01626BariumppmASTM D518sm000MolybdenumppmASTM D518sm011147ManganeseppmASTM D518sm0<		Cadmium						
Barium ppm ASTM D5165m 0 0 0 Molybdenum ppm ASTM D5165m 60 111 47 Manganesee ppm ASTM D5165m 0 Magnesium ppm ASTM D5165m 1010 972 677 Calcium ppm ASTM D5165m 1070 1116 1398 Phosphorus ppm ASTM D5165m 1150 967 848 Zinc ppm ASTM D5165m 1270 1315 1059 Sulfur ppm ASTM D5165m 2600 3672 2974 Solicon ppm ASTM D5165m 2060 3672 2974 Sulfur ppm ASTM D5165m 2060 3672 2974 Solicon ppm ASTM D5165m 2060 20 Solicon ppm ASTM D5165m >20 260 20 Glycol % 'A		ADDITIVES		method	limit/base	current	history1	history2
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 60 111 47 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 1010 972 677 Calcium ppm ASTM D5185m 1070 1116 1398 Phosphorus ppm ASTM D5185m 1070 1315 1059 Sulfur ppm ASTM D5185m 1270 1315 1059 Sulfur ppm ASTM D5185m 2060 3672 2974 Solicon ppm ASTM D5185m 2060 3672 2974 Sulfur ppm ASTM D5185m 2060 3672 2974 Solicon ppm ASTM D5185m 2060 20 Solicon ppm ASTM D5185m >20 260 20 Glycol								
Maganesee ppm ASTM D5185m 0 <1		Boron	ppm	ASTM D5185m	0	16	26	
Manganesee ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 1010 972 677 Calcium ppm ASTM D5185m 1070 1116 1398 Calcium ppm ASTM D5185m 1150 967 848 Phosphorus ppm ASTM D5185m 1270 1315 1059 Sulfur ppm ASTM D5185m 2060 3672 2974 Sulfur ppm ASTM D5185m 2060 3672 2974 Sulfur ppm ASTM D5185m 2060 3672 2974 Sulfur ppm ASTM D5185m 206 3672 2974 Sulfur ppm ASTM D5185m 225 12 6 Solicon ppm ASTM D5185m >20 AS80 2 Solicon ppm ASTM D5185m >20 AS80 2 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Magnesium ppm ASTM D5185m 1010 972 677 Calcium ppm ASTM D5185m 1070 1116 1398 Phosphorus ppm ASTM D5185m 1150 967 848 Zinc ppm ASTM D5185m 1270 1315 1059 Sulfur ppm ASTM D5185m 2060 3672 2974 Solform ppm ASTM D5185m 2060 3672 2974 Solform ppm ASTM D5185m 2060 3672 2974 Solform ppm ASTM D5185m 206 12 6 Solform ppm ASTM D5185m >20 12 6 Solform ppm ASTM D5185m >20 280 2 Glycol % *ASTM D5185m >20 NEG NEG Solfarion % *ASTM D7844 >4 0.2 0.2 Nitration Abs/rm		Barium	ppm	ASTM D5185m	0	0	0	
Calcium ppm ASTM D5185m 1070 1116 1398 Phosphorus ppm ASTM D5185m 1150 967 848 Zinc ppm ASTM D5185m 1270 1315 1059 Sulfur ppm ASTM D5185m 2060 3672 2974 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 12 6 Sodium ppm ASTM D5185m >20 2800 2 Potassium ppm ASTM D5185m >20 2800 2 Glycol % *ASTM D2982 NEG NEG Soot % % *ASTM D7844 >4 0.2 0.2 Nitration Abs/m *ASTM D7624 >20 10.4 8.1 Sulfation Abs/m *ASTM D714 >30 20.5 21.3 Nitration		Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0 60	0 111	0 47	
PhosphorusppmASTM D5185m1150967848ZincppmASTM D5185m127013151059SulfurppmASTM D5185m206036722974CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25126SodiumppmASTM D5185m>207084PotassiumppmASTM D5185m>202802Glycol%*ASTM D2982Currenthistory1history2Soot %%*ASTM D7844>40.20.2NitrationAbs/rm*ASTM D7445>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/rm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0	0 111 <1	0 47 <1	
ZincppmASTM D5185m127013151059SulfurppmASTM D5185m206036722974CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25126SodiumppmASTM D5185m>207084PotassiumppmASTM D5185m>2028002Glycol%*ASTM D2982NEGNEGINFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.20.2NitrationAbs/cm*ASTM D7624>2010.48.1SulfationAbs/imm*ASTM D715>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/imm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010	0 111 <1 972	0 47 <1 677	
SulfurppmASTM D5185m206036722974CONTAMINATSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25126SodiumppmASTM D5185m>207084PotassiumppmASTM D5185m>202802Glycol%*ASTM D5185m>20NEGNEGINFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.20.2NitrationAbs/cm*ASTM D7844>2010.48.1SulfationAbs/tm*ASTM D7445>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/tm*ASTM D7445>2517.318.0		Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070	0 111 <1 972 1116	0 47 <1 677 1398	
SiliconppmASTM D5185m>25126SodiumppmASTM D5185m▲<708		Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150	0 111 <1 972 1116 967	0 47 <1 677 1398 848	
SodiumppmASTM D5185m▲ 7084PotassiumppmASTM D5185m>20▲ 2802Glycol%*ASTM D2982NEGNEGINFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.20.2NitrationAbs/cm*ASTM D7624>2010.48.1SulfationAbs/.1mm*ASTM D715>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270	0 111 <1 972 1116 967 1315	0 47 <1 677 1398 848 1059	
SodiumppmASTM D5185m▲ 7084PotassiumppmASTM D5185m>20▲ 2802Glycol%*ASTM D2982NEGNEGINFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.20.2NitrationAbs/cm*ASTM D7624>2010.48.1SulfationAbs/.1mm*ASTM D715>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060	0 111 <1 972 1116 967 1315 3672	0 47 <1 677 1398 848 1059 2974	
PotassiumppmASTM D5185m>202802Glycol%*ASTM D2982NEGNEGINFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.20.2NitrationAbs/cm*ASTM D7624>2010.48.1SulfationAbs/.1mm*ASTM D7415>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 Iimit/base	0 111 <1 972 1116 967 1315 3672 current	0 47 <1 677 1398 848 1059 2974 history1	
Glycol%*ASTM D2982NEGINFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.20.2NitrationAbs/cm*ASTM D7624>2010.48.1SulfationAbs/.1mm*ASTM D7415>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 Iimit/base	0 111 <1 972 1116 967 1315 3672 current 12	0 47 <1 677 1398 848 1059 2974 history1 6	 history2
Soot % % *ASTM D7844 >4 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 10.4 8.1 Sulfation Abs/.1mm *ASTM D7415 >30 20.5 21.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 18.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 limit/base >25	0 111 <1 972 1116 967 1315 3672 current 12 ▲ 708	0 47 <1 677 1398 848 1059 2974 history1 6 4	 history2
Soot % % *ASTM D7844 >4 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 10.4 8.1 Sulfation Abs/.1mm *ASTM D7415 >30 20.5 21.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 18.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm tTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 limit/base >25	0 111 <1 972 1116 967 1315 3672 current 12 ▲ 708 ▲ 280	0 47 <1 677 1398 848 1059 2974 history1 6 4 2	 history2
NitrationAbs/cm*ASTM D7624>2010.48.1SulfationAbs/.1mm*ASTM D7415>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Silicon Sodium Potassium Glycol	ppm ppm ppm ppm ppm ppm ppm ppm ppm tTS	ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 limit/base >25 >20	0 111 <1 972 1116 967 1315 3672 <u>current</u> 12 ▲ 708 ▲ 280 NEG	0 47 <1 677 1398 848 1059 2974 history1 6 4 2 2 NEG	 history2
SulfationAbs/.1mm*ASTM D7415>3020.521.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m *ASTM D2982	0 60 0 1010 1070 1150 1270 2060 Iimit/base >25 >20	0 111 <1 972 1116 967 1315 3672 current 12 ▲ 708 ▲ 280 NEG current	0 47 <1 677 1398 848 1059 2974 history1 6 4 2 2 NEG history1	 history2 history2
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2517.318.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D2982 method *ASTM D7844	0 60 0 1010 1070 1150 1270 2060 limit/base >20 limit/base >4	0 111 <1 972 1116 967 1315 3672 current 12 ▲ 708 ▲ 280 NEG current 0.2	0 47 <1 677 1398 848 1059 2974 history1 6 4 2 2 NEG history1 0.2	 history2 history2
Oxidation Abs/.1mm *ASTM D7414 >25 17.3 18.0		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm VTS ppm ppm ppm ppm ppm ppm pm pm pm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D2982 *ASTM D2982 *ASTM D7844	0 60 0 1010 1070 1150 1270 2060 limit/base >20 limit/base >4 >20	0 111 <1 972 1116 967 1315 3672 <urrent 12 ▲ 708 ▲ 280 NEG Current 0.2 10.4</urrent 	0 47 <1 677 1398 848 1059 2974 history1 6 4 2 2 NEG NEG history1 0.2 8.1	 history2 history2
		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 *ASTM D2982 *ASTM D7844 *ASTM D7844 *ASTM D7844	0 60 0 1010 1070 1150 1270 2060 imit/base >25 >20 imit/base >4 >20 >30	0 111 <1 972 1116 967 1315 3672 current 12 ▲ 708 ▲ 280 NEG 0.2 10.4 20.5	0 47 <1 677 1398 848 1059 2974 history1 6 4 2 NEG NEG history1 0.2 8.1 21.3	 history2 history2
Base Number (BN) mg KOH/g ASTM D2896 9.8 8.3 8.9		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 *ASTM D2982 *ASTM D7844 *ASTM D7844 *ASTM D7844	0 60 0 1010 1070 1150 1270 2060 imit/base >25 >20 imit/base >4 >20 >30	0 111 <1 972 1116 967 1315 3672 current 12 ▲ 708 ▲ 280 NEG 0.2 10.4 20.5	0 47 <1 677 1398 848 1059 2974 history1 6 4 2 NEG NEG history1 0.2 8.1 21.3	 history2 history2
		Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 Method *ASTM D7844 *ASTM D7624 *ASTM D7615	0 60 0 1010 1070 1150 1270 2060 imit/base >25 >20 imit/base >4 >20 >30 imit/base	0 111 <1 972 1116 967 1315 3672 <urrent 12 ▲ 708 ▲ 280 NEG Current 0.2 10.4 20.5 <urrent< td=""><td>0 47 <1 677 1398 848 1059 2974 history1 6 4 2 NEG NEG NEG 0.2 8.1 21.3 history1</td><td> history2 history2 history2</td></urrent<></urrent 	0 47 <1 677 1398 848 1059 2974 history1 6 4 2 NEG NEG NEG 0.2 8.1 21.3 history1	 history2 history2 history2



OIL ANALYSIS REPORT



Submitted By: BECKY FLETCHER

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