

17

16

13

12

11

10

Dec5/23 -

Base

A

Apr14/21

cSt (100°C)

RECOMMENDATION

Abnormal

14.0

12.0

10.0 ⊒ ≥⁸ 8.0

6.0

4.0

2.0

0.0

Apr14/2

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.

Jul2/21

Vov27/23

PROBLEMATI	C TES	FRESULT	S			
Sample Status				SEVERE	ABNORMAL	NORMAL
Fuel	%	ASTM D3524	>5	🛑 17.8	▲ 7.9	<1.0
Visc @ 100°C	cSt	ASTM D445	15.4	🔺 11.9	1 1.9	13.8

Feb28/22

Sep29/21

0ct19/22

0ct9/23

Vov27/23

Customer Id: GFL415 Sample No.: GFL0101460 Lab Number: 06027396 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



27 Nov 2023 Diag: Wes Davis

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 moderate 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.





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.



09 Oct 2023 Diag: Wes Davis

16 Nov 2023 Diag: Wes Davis



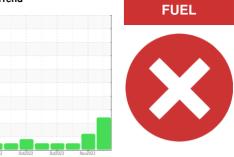
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Component Diesel Engine Fluid

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

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.

Machine Id

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.

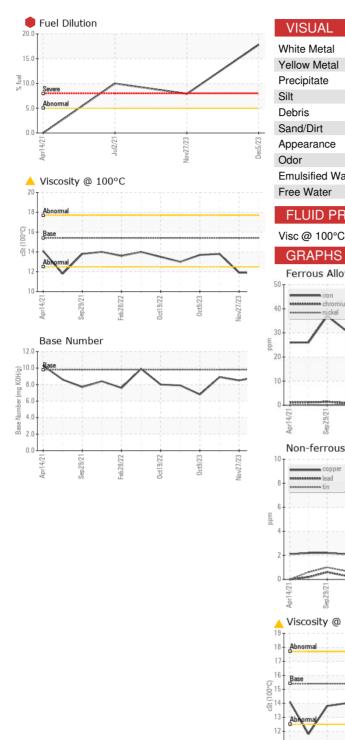
Fluid Condition

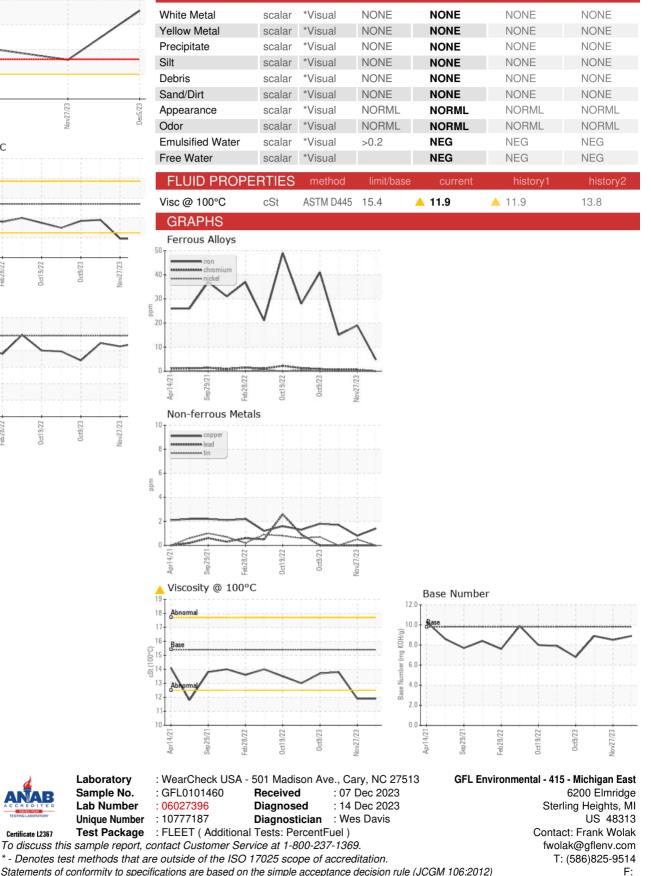
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Sample Date Client Info 05 Dec 2023 27 Nov 2023 16 Nov 2023 Machine Age hrs Client Info 11246 11201 11115 Oil Age hrs Client Info 11201 11115 10840 Sample Status Client Info N/A Not Changd NA CONTAMINATION method Imit/base current history1 history1 Water WC Method >0.2 NEG NEG NEG Water WC Method SEVERE NeG NEG NEG Chromium ppm ASTM 05185m >5 0 <1 <1 Nickel ppm ASTM 05185m >3 0 0 0 Silver ppm ASTM 05185m >3 0 0 0 Silver ppm ASTM 05185m >3 0 0 0 Astm 05185m >5 0 <1 0 0 0 Astm 05185m >5	SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Date Client Info 05 Dec 2023 27 Nov 2023 16 Nov 2023 Machine Age hrs Client Info 11246 11201 11115 Oil Age hrs Client Info 11201 11115 10840 Oil Changed Client Info N/A Not Changd NA Sample Status Client Info N/A Not Changd NA CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Chromium ppm ASTM D5185m >5 0 -1 -1 Nickel ppm ASTM D5185m >5 0 -1 -1 Nickel ppm ASTM D5185m >20 0 0 0 ASTM D5185m >30 0 0 0 -1 -1 0 Kornonium ppm ASTM D5185m >30 0 0 0 -1 0 -1 <th>Sample Number</th> <td></td> <td>Client Info</td> <td></td> <th>GFL0101460</th> <td>GFL0101419</td> <td>GFL0101526</td>	Sample Number		Client Info		GFL0101460	GFL0101419	GFL0101526
Oil Age hrs Client Info 11201 11115 10840 Oil Changed Client Info N/A Not Changed N/A Sample Status Imit Descent SEVERE ABNORMAL NORMAL CONTAMINATION method Imit Descent history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Wicker WC Method >0.2 NEG NEG NEG Wicker ppm ASTM D5185m >5 0 <1	Sample Date		Client Info		05 Dec 2023	27 Nov 2023	16 Nov 2023
Oil Changed Client Info N/A Not Changed N/A Sample Status Imit/base current ABNORMAL 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 ASTM D5185 >80 5 19 15 Chromium ppm ASTM D5185 >5 0 <1	Machine Age	hrs	Client Info		11246	11201	11115
Sample Status SEVERE ABNORMAL 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 ASTM D5185m >80 5 19 15 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >30 4 4 4 Lead ppm ASTM D5185m >30 0 0 0 0 Cadmium ppm ASTM D5185m >5 0 <11	Oil Age	hrs	Client Info		11201	11115	10840
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 Imit/base current history1 history2 Iron ppm ASTM D5185n >20 0 0 0 Nickel ppm ASTM D5185n >22 0 0 0 Silver ppm ASTM D5185n >30 0 0 0 Silver ppm ASTM D5185n >30 0 0 0 Copper ppm ASTM D5185n >30 0 0 0 Cadmium ppm ASTM D5185n >5 0 <1	Oil Changed		Client Info		N/A	Not Changd	N/A
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Glycol WC Method NEG NEG NEG NEG WEAR METALS method limil/base current history1 history2 Iron ppm ASTM D5185m >5 0 <1	CONTAMINAT	ON	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >80 5 19 15 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >30 4 4 4 Lead ppm ASTM D5185m >30 4 4 4 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >5 0 <1	Water		WC Method	>0.2	NEG	NEG	NEG
Iron ppm ASTM D5185m >80 5 19 15 Chromium ppm ASTM D5185m >5 0 <1	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >55 0 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 0 0	Iron	ppm	ASTM D5185m	>80	5	19	15
Titanium ppm ASTM D5185m 0 0 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 4 4 4 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >150 1 <1	Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Titanium ppm ASTM D5185m 0 0 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 4 4 4 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >150 1 <1	Nickel		ASTM D5185m	>2	0	0	0
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 4 4 4 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >5 0 <1 2 Tin ppm ASTM D5185m >5 0 <10 0 Cadmium ppm ASTM D5185m >5 0 <10 0 Cadmium ppm ASTM D5185m 0 181 2 2 Boron ppm ASTM D5185m 0 181 2 2 Barium ppm ASTM D5185m 0 <11 <1< <1 Molybdenum ppm ASTM D5185m 0 <181 2 2 Barium ppm ASTM D5185m 0 <115 918 833 967 Calcium ppm ASTM D5185m 1070 2474	Titanium		ASTM D5185m		0	0	<1
Aluminum ppm ASTM D5185m >30 4 4 4 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >150 1 <1	Silver		ASTM D5185m	>3	0	0	0
Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >150 1 <1	Aluminum		ASTM D5185m	>30	4	4	4
Copper ppm ASTM D5185m >150 1 <1 <1 2 Tin ppm ASTM D5185m >5 0 <1	Lead			>30	0	0	0
Tin ppm ASTM D5185m >5 0 <1 0 Vanadium ppm ASTM D5185m 0 0 0 <1	Copper		ASTM D5185m	>150	1	<1	2
Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 181 2 2 Barium ppm ASTM D5185m 0 0 0 0 0 Malybdenum ppm ASTM D5185m 0 <1	Tin		ASTM D5185m	>5	0	<1	0
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Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 60 2 50 54 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 516 834 853 Calcium ppm ASTM D5185m 1070 2474 912 1063 Phosphorus ppm ASTM D5185m 1070 2474 912 1063 Zinc ppm ASTM D5185m 1270 1066 1086 1185 Sulfur ppm ASTM D5185m 2060 3549 2491 2709 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >20 7 4 5 Sodium ppm ASTM D5185m >20 1 3 2 Fuel % ASTM D5185m <th>ADDIT<u>IVES</u></th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDIT <u>IVES</u>		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 516 834 853 Calcium ppm ASTM D5185m 1010 516 834 853 Calcium ppm ASTM D5185m 1070 2474 912 1063 Phosphorus ppm ASTM D5185m 1070 2474 912 1063 Phosphorus ppm ASTM D5185m 1070 2474 912 1063 Zinc ppm ASTM D5185m 1270 1066 1086 1185 Sulfur ppm ASTM D5185m 2060 3549 2491 2709 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >20 7 4 5 5 Potassium ppm ASTM D5185m >20 1 3 2 5 Fuel % ASTM D5185m >20 17.8 7.9 <1.0 INF	Boron	ppm					
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Calcium ppm ASTM D5185m 1070 2474 912 1063 Phosphorus ppm ASTM D5185m 1150 918 893 967 Zinc ppm ASTM D5185m 1270 1066 1086 1185 Sulfur ppm ASTM D5185m 2060 3549 2491 2709 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 20 7 4 5 Sodium ppm ASTM D5185m >20 7 4 5 Potassium ppm ASTM D5185m >20 1 3 2 Fuel % ASTM D524 >5 17.8 7.9 <1.0	Boron	ppm	ASTM D5185m ASTM D5185m	0	181 0	2 0	2 0
Phosphorus ppm ASTM D5185m 1150 918 893 967 Zinc ppm ASTM D5185m 1270 1066 1086 1185 Sulfur ppm ASTM D5185m 2060 3549 2491 2709 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 7 4 5 Sodium ppm ASTM D5185m >20 7 4 5 Potassium ppm ASTM D5185m >20 1 3 2 Fuel % ASTM D324 >5 17.8 7.9 <1.0	Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	181 0 2	2 0 50	2 0 54
Zinc ppm ASTM D5185m 1270 1066 1086 1185 Sulfur ppm ASTM D5185m 2060 3549 2491 2709 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 7 4 5 Sodium ppm ASTM D5185m >20 7 4 5 Potassium ppm ASTM D5185m >20 1 3 2 Fuel % ASTM D5185m >20 1 3 2 Sotium ppm ASTM D5185m >20 1 3 2 Fuel % ASTM D524 >5 17.8 7.9 <1.0	Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	181 0 2 <1	2 0 50 <1	2 0 54 <1
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CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>20745SodiumppmASTM D5185m455PotassiumppmASTM D5185m>20132Fuel%ASTM D5185m>20132Fuel%ASTM D5185m>20132Soot %%ASTM D524>517.87.9<1.0	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	181 0 2 <1 516 2474	2 0 50 <1 834 912	2 0 54 <1 853 1063
Silicon ppm ASTM D5185m >20 7 4 5 Sodium ppm ASTM D5185m 4 5 5 Potassium ppm ASTM D5185m >20 1 3 2 Fuel % ASTM D324 >5 17.8 7.9 <1.0	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	181 0 2 <1 516 2474 918	2 0 50 <1 834 912 893	2 0 54 <1 853 1063 967
Sodium ppm ASTM D5185m 4 5 5 Potassium ppm ASTM D5185m<>20 1 3 2 Fuel % ASTM D5185m<>20 1 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844<>3 1 1 0.4 Nitration Abs/cm *ASTM D7624<>20 9.9 9.2 6.9 Sulfation Abs/.1mm *ASTM D7415<>30 20.1 20.3 19.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414<>25 17.0 16.6 14.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270	181 0 2 <1 516 2474 918 1066	2 0 50 <1 834 912 893 1086	2 0 54 <1 853 1063 967 1185
Potassium ppm ASTM D5185m >20 1 3 2 Fuel % ASTM D3524 >5 17.8 7.9 <1.0	Boron 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 ASTM D5185m	0 0 60 1010 1070 1150 1270 2060	181 0 2 <1 516 2474 918 1066 3549	2 0 50 <1 834 912 893 1086 2491	2 0 54 <1 853 1063 967 1185 2709
Fuel % ASTM D3524 >5 17.8 7.9 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1 0.4 Nitration Abs/cm *ASTM D7624 >20 9.9 9.2 6.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 20.3 19.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 16.6 14.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	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	0 0 60 1010 1070 1150 1270 2060	181 0 2 <1 516 2474 918 1066 3549 current	2 0 50 <1 834 912 893 1086 2491 history1	2 0 54 <1 853 1063 967 1185 2709 history2
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Soot % % *ASTM D7844 >3 1 1 0.4 Nitration Abs/cm *ASTM D7624 >20 9.9 9.2 6.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 20.3 19.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 16.6 14.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 kimit/base >20	181 0 2 <1 516 2474 918 1066 3549 <u>current</u> 7 4	2 0 50 <1 834 912 893 1086 2491 history1 4 5	2 0 54 <1 853 1063 967 1185 2709 history2 5 5 5
Nitration Abs/cm *ASTM D7624 >20 9.9 9.2 6.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 20.3 19.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 16.6 14.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >20	181 0 2 <1 516 2474 918 1066 3549 <u>current</u> 7 4	2 0 50 <1 834 912 893 1086 2491 history1 4 5 3	2 0 54 <1 853 1063 967 1185 2709 history2 5 5 5 2
Sulfation Abs/.1mm *ASTM D7415 >30 20.1 20.3 19.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 16.6 14.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 Imit/base >20 >20 >20	181 0 2 <1 516 2474 918 1066 3549 Current 7 4 1 1 17.8	2 0 50 <1 834 912 893 1086 2491 history1 4 5 3 3 ↑.9	2 0 54 <1 853 1063 967 1185 2709 history2 5 5 5 2 2 <1.0
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 16.6 14.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 Imit/base >20 >20 >20	181 0 2 <1 516 2474 918 1066 3549 Current 7 4 1 1 1 17.8 Current	2 0 50 <1 834 912 893 1086 2491 history1 4 5 3 3 ▲ 7.9 history1	2 0 54 <1 853 1063 967 1185 2709 history2 5 5 5 2 <1.0 history2
Oxidation Abs/.1mm *ASTM D7414 >25 17.0 16.6 14.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 2060 2060 20 20 20 20 20 20 20 20 20 20 20 20 20	181 0 2 <1 516 2474 918 1066 3549 current 7 4 1 1 17.8 current 1	2 0 50 <1 834 912 893 1086 2491 history1 4 5 3 3 ▲ 7.9 history1 1	2 0 54 <1 853 1063 967 1185 2709 history2 5 5 5 2 <1.0 history2 0.4
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524 ASTM D3524	0 0 0 1010 1070 1150 1270 2060 2060 2060 220 220 220 25 20 1imit/base 23 23 20	181 0 2 <1 516 2474 918 1066 3549 current 7 4 1 17.8 current 1 9.9	2 0 50 <1 834 912 893 1086 2491 history1 4 5 3 7.9 7.9 history1 1 9.2	2 0 54 <1 853 1063 967 1185 2709 history2 5 5 5 2 <1.0 history2 0.4 6.9
Base Number (BN) mg KOH/g ASTM D2896 9.8 8.9 8.5 8.9	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >20 >20 >5 imit/base >3 >20 >3	181 0 2 <1 516 2474 918 1066 3549 Current 7 4 1 1 17.8 Current 1 9.9 20.1	2 0 50 <1 834 912 893 1086 2491 history1 4 5 3 3 ▲ 7.9 history1 1 9.2 20.3	2 0 54 <1 853 1063 967 1185 2709 history2 5 5 5 2 <1.0 history2 0.4 6.9 19.0
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >20 >20 >5 imit/base >3 >20 >30 30	181 0 2 <1 516 2474 918 1066 3549 Current 7 4 1 1 17.8 Current 1 9.9 20.1 Current	2 0 50 <1 834 912 893 1086 2491 history1 4 5 3 3 ↑.9 history1 1 9.2 20.3 history1	2 0 54 <1 853 1063 967 1185 2709 history2 5 5 5 2 <1.0 history2 0.4 6.9 19.0 history2



OIL ANALYSIS REPORT





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

Certificate L2367