

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 GAL)

DIAGNOSIS

Recommendation

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.

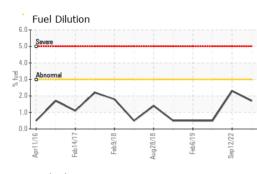
Fluid Condition

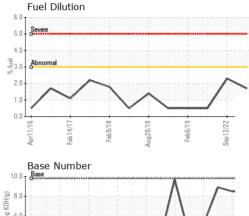
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sample Number Client Info GFL0098775 GFL0092502 GFL007048 Sample Date Client Info 33222 0 33222 Machine Age hrs Client Info 33222 0 33222 Oil Age hrs Client Info 33222 0 33222 Oil Age hrs Client Info 33222 0 33222 Oil Age Client Info 33222 0 33222 Oil Age Client Info 3222 0 33222 Oil Changed Client Info 3222 0 33222 OIL Changed Client Info 3222 0 1610 NoR Water WC Method >0.2 NEG NEG NEG Water WC Method >0.2 <1 <1 <1 <1 Tron ppm ASTM 05185m >20 <1 <1 <1 Tranum ppm ASTM 05185m >20 <1 <1 <1	GAL)		AprZ016 Feb2	017 Feb2018 Aug2018	Feb2019 May2022 Sep2022	Aug2023	
Sample Date Client Info 15 Dec 2023 17 Aug 2023 09 May 2023 Machine Age hrs Client Info 33222 0 33222 Oil Age hrs Client Info 33222 0 33222 Oil Changed Client Info N/A Changed N/A Sample Status Client Info N/A Changed N/A CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Chromium ppm ASTM 05185m >120 16 10 6 Chromium ppm ASTM 05185m >20 <1 2 1 Nickel ppm ASTM 05185m >20 1 2 1 0 Aluminum ppm ASTM 05185m >20 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 15 Dec 2023 17 Aug 2023 09 May 2023 Machine Age hrs Client Info 33222 0 33222 Oil Age hrs Client Info 33222 0 33222 Oil Changed Client Info NA Changed NA Sample Status Client Info NA ATTENTION NORMAL NORMAL CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Chromium ppm ASTM 05185m >120 16 10 6 Chromium ppm ASTM 05185m >20 1 2 1 1 1 1 Nickel ppm ASTM 05185m >20 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1	Sample Number		Client Info		GFL0098775	GFL0092502	GFL0070484
Machine Age hrs Client Info 33222 0 33222 Oil Age hrs Client Info NA Changed N/A Sample Status Client Info NA Changed N/A Sample Status Client Info NA Changed N/A CONTAMINATION method init/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Wetar WC Method >0.2 NEG NEG NEG Wetar WC Method >0.2 NEG NEG NEG Nickel ppm ASTM05185m >20 <1			Client Info		15 Dec 2023	17 Aug 2023	09 May 2023
Oli Changed Client Info N/A Changed N/A Sample Status Image: Contramine Status Image: Contramine Status Normal Status <		hrs	Client Info		33222	-	
Oil Changed Client Info N/A Changed N/A Sample Status Image: Client Info ATTENTION NORMAL NORMAL CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Wear WC Method >0.2 NEG NEG NEG Chromium ppm ASTMD5185m >12.0 16 10 6 Chromium ppm ASTMD5185m >2.2 0 <1	Oil Age	hrs	Client Info		33222	0	33222
Sample Status ATTENTION NORMAL NORMAL 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 16 10 6 Chromium ppm ASTM D5185m >120 1 21 21 Nickel ppm ASTM D5185m >20 <1						Changed	N/A
Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method linibbase current history1 history2 Iron ppm ASTM D5185m >20 <1	•				ATTENTION		NORMAL
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Iron ppm ASTM D5185m >120 16 10 6 Chromium ppm ASTM D5185m >20 <1	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >5 0 0 <1	WEAR METAL	S	method	limit/base	current	history1	history2
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Titanium ppm ASTM D5185m >2 0 <1 0 Silver ppm ASTM D5185m >2 0 <1	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Silver ppm ASTM D5185m >2 0 <1 0 Aluminum ppm ASTM D5185m >20 1 2 <1 Lead ppm ASTM D5185m >40 0 2 <1 Copper ppm ASTM D5185m >330 <1 2 2 Tin ppm ASTM D5185m >15 0 <1 <1 0 Cadmium ppm ASTM D5185m >15 0 <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 9 <1 4 Barium ppm ASTM D5185m 0 s1 1 2 Boron ppm ASTM D5185m 0 s1 1 3 2 Barium ppm ASTM D5185m 0 s1 1 2 1 3 Molybdenum ppm	Nickel	ppm	ASTM D5185m	>5	0	0	
Aluminum ppm ASTM D5185m >20 1 2 <1 Lead ppm ASTM D5185m >40 0 2 <1	Titanium	ppm	ASTM D5185m	>2	0	<1	0
Lead ppm ASTM D5185m >40 0 2 <1 Copper ppm ASTM D5185m >330 <1	Silver	ppm	ASTM D5185m	>2	0	<1	0
Copper ppm ASTM D5185m >330 <1 2 2 Tin ppm ASTM D5185m >15 0 <1	Aluminum	ppm	ASTM D5185m	>20	1	2	<1
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Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 9 <1 4 Barium ppm ASTM D5185m 0 0 0 0 2 Magnesium ppm ASTM D5185m 0 0 <1 <1 4 Magnesium ppm ASTM D5185m 0 <1 <1 <1 <1 Magnesium ppm ASTM D5185m 0 <1 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 864 915 897 Calcium ppm ASTM D5185m 1070 993 1155 1103 Phosphorus ppm ASTM D5185m 1270 1100 1202 1181 Sulfur ppm	Copper	ppm	ASTM D5185m	>330	<1	2	2
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 9 <1 4 Barium ppm ASTM D5185m 0 0 0 0 2 Molybdenum ppm ASTM D5185m 0 56 58 62 Magnesium ppm ASTM D5185m 0 <1 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 864 915 897 Calcium ppm ASTM D5185m 1070 993 1155 1103 Phosphorus ppm ASTM D5185m 1270 1100 1202 1181 Sulfur ppm ASTM D5185m 2060 2555 3559 3163 CONTAMINANTS method Imit/base current history1 history2 Solicon ppm ASTM D5185m	Tin	ppm	ASTM D5185m	>15	0	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 9 <1	Vanadium	ppm	ASTM D5185m		0	<1	0
Boron ppm ASTM D5185m 0 9 <1 4 Barium ppm ASTM D5185m 0 0 0 2 Molybdenum ppm ASTM D5185m 60 56 58 62 Manganese ppm ASTM D5185m 0 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 0 2 Molybdenum ppm ASTM D5185m 60 56 58 62 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 864 915 897 Calcium ppm ASTM D5185m 1070 993 1155 1103 Phosphorus ppm ASTM D5185m 1070 993 1155 1103 Sulfur ppm ASTM D5185m 1270 1100 1202 1181 Sulfur ppm ASTM D5185m 2060 2555 3559 3163 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 3 2 <1 Potassium ppm ASTM D5185m >20 3 2 <1 Fuel % ASTM D51	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 56 58 62 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	0	9	<1	4
Maganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 864 915 897 Calcium ppm ASTM D5185m 1070 993 1155 1103 Phosphorus ppm ASTM D5185m 1070 993 1155 1103 Phosphorus ppm ASTM D5185m 1070 993 1155 1103 Phosphorus ppm ASTM D5185m 1270 1100 1202 1181 Sulfur ppm ASTM D5185m 2060 2555 3559 3163 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 3 2 <1	Barium	ppm	ASTM D5185m	0	0	0	2
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Calcium ppm ASTM D5185m 1070 993 1155 1103 Phosphorus ppm ASTM D5185m 1150 928 978 1007 Zinc ppm ASTM D5185m 1270 1100 1202 1181 Sulfur ppm ASTM D5185m 2060 2555 3559 3163 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 3 3 Sodium ppm ASTM D5185m >20 3 2 <1							
Phosphorus ppm ASTM D5185m 1150 928 978 1007 Zinc ppm ASTM D5185m 1270 1100 1202 1181 Sulfur ppm ASTM D5185m 2060 2555 3559 3163 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 3 3 Sodium ppm ASTM D5185m >25 3 3 3 Potassium ppm ASTM D5185m >20 3 2 <1	Manganese		ASTM D5185m	0	<1	<1	<1
Zinc ppm ASTM D5185m 1270 1100 1202 1181 Sulfur ppm ASTM D5185m 2060 2555 3559 3163 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 3 3 Sodium ppm ASTM D5185m >25 3 3 3 Sodium ppm ASTM D5185m >20 3 2 <1	-	ppm					
SulfurppmASTM D5185m2060255535593163CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25333SodiumppmASTM D5185m>2032<1	Magnesium	ppm ppm	ASTM D5185m	1010	864	915	897
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m<>25 3 3 3 Sodium ppm ASTM D5185m >25 3 3 3 Potassium ppm ASTM D5185m >20 3 2 <1	Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m	1010 1070	864 993	915 1155	897 1103
Silicon ppm ASTM D5185m >25 3 3 3 Sodium ppm ASTM D5185m 8 1 <1	Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150	864 993 928	915 1155 978	897 1103 1007
Sodium ppm ASTM D5185m 8 1 <1 Potassium ppm ASTM D5185m >20 3 2 <1	Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270	864 993 928 1100	915 1155 978 1202	897 1103 1007 1181
Potassium ppm ASTM D5185m >20 3 2 <1 Fuel % ASTM D3524 >3.0 1.7 <1.0	Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060	864 993 928 1100 2555	915 1155 978 1202 3559	897 1103 1007 1181
Fuel % ASTM D3524 >3.0 1.7 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 2.7 1.1 2.1 Nitration Abs/cm *ASTM D7624 >20 8.0 5.7 6.5 Sulfation Abs/.1mm *ASTM D7415 >30 21.4 18.4 20.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.9 12.0 13.2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1010 1070 1150 1270 2060 limit/base	864 993 928 1100 2555 current	915 1155 978 1202 3559 history1	897 1103 1007 1181 3163 history2
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 2.7 1.1 2.1 Nitration Abs/cm *ASTM D7624 >20 8.0 5.7 6.5 Sulfation Abs/.mm *ASTM D7415 >30 21.4 18.4 20.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.mm *ASTM D7414 >25 12.9 12.0 13.2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1010 1070 1150 1270 2060 limit/base	864 993 928 1100 2555 current 3	915 1155 978 1202 3559 history1 3	897 1103 1007 1181 3163 history2 3
Soot % % *ASTM D7844 >4 2.7 1.1 2.1 Nitration Abs/cm *ASTM D7624 >20 8.0 5.7 6.5 Sulfation Abs/.1mm *ASTM D7415 >30 21.4 18.4 20.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.9 12.0 13.2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	864 993 928 1100 2555 current 3 8	915 1155 978 1202 3559 history1 3 1	897 1103 1007 1181 3163 history2 3 <1
Nitration Abs/cm *ASTM D7624 >20 8.0 5.7 6.5 Sulfation Abs/.1mm *ASTM D7415 >30 21.4 18.4 20.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.9 12.0 13.2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20	864 993 928 1100 2555 <u>current</u> 3 8 3	915 1155 978 1202 3559 history1 3 1 2	897 1103 1007 1181 3163 history2 3 <1 <1
Sulfation Abs/.1mm *ASTM D7415 >30 21.4 18.4 20.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.9 12.0 13.2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	1010 1070 1150 1270 2060 limit/base >25 >20 >3.0	864 993 928 1100 2555 current 3 8 3 3 1.7	915 1155 978 1202 3559 history1 3 1 2 <1.0	897 1103 1007 1181 3163 history2 3 <1 <1 <1 <1.0
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.9 12.0 13.2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	1010 1070 1150 1270 2060 <i>limit/base</i> >25 >20 >20 >3.0 <i>limit/base</i>	864 993 928 1100 2555 current 3 8 3 1.7 current	915 1155 978 1202 3559 history1 3 1 2 <1.0 history1	897 1103 1007 1181 3163 history2 3 <1 <1 <1 <1.0 history2
Oxidation Abs/.1mm *ASTM D7414 >25 12.9 12.0 13.2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	1010 1070 1150 2060 limit/base >25 >20 >3.0 limit/base >4	864 993 928 1100 2555 current 3 8 3 1.7 current 2.7	915 1155 978 1202 3559 history1 3 1 2 <1.0 history1 1.1	897 1103 1007 1181 3163 history2 3 <1 <1 <1 <1.0 history2 2.1
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7844	1010 1070 1150 2060 limit/base >25 >20 >3.0 limit/base >4 >20	864 993 928 1100 2555 current 3 8 3 1.7 current 2.7 8.0	915 1155 978 1202 3559 history1 3 1 2 <1.0 history1 1.1 5.7	897 1103 1007 1181 3163 history2 3 <1 <1 <1.0 history2 2.1 6.5
	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 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 *ASTM D7844 *ASTM D7624	1010 1070 1150 1270 2060 limit/base >25 >20 >3.0 limit/base >4 >20 >30	864 993 928 1100 2555 current 3 8 3 1.7 current 2.7 8.0 21.4	915 1155 978 1202 3559 history1 3 1 2 <1.0 history1 1.1 5.7 18.4	897 1103 1007 1181 3163 history2 3 <1 <1 <1 <1.0 history2 2.1 6.5 20.9
Base Number (BN) mg KOH/g ASTM D2896 9.8 8.5 8.5 8.9	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm ppm ppm ppm ppm ppm ppm ppm ppm % Abs/cm Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 Method *ASTM D7844 *ASTM D7624 *ASTM D7624	1010 1070 1150 1270 2060 limit/base >25 >20 >3.0 limit/base >4 >20 >30 limit/base	864 993 928 1100 2555 current 3 8 3 1.7 current 2.7 8.0 21.4 current	915 1155 978 1202 3559 history1 3 1 2 <1.0 history1 1.1 5.7 18.4 history1	897 1103 1007 1181 3163 history2 3 <1 <1 <1.0 history2 2.1 6.5 20.9 history2



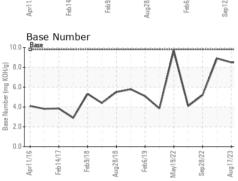
OIL ANALYSIS REPORT

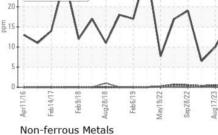


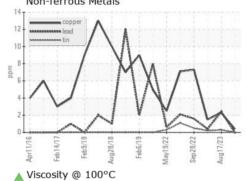


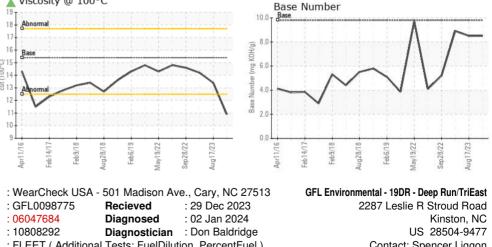
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	10.9	13.4	14.2
GRAPHS						











Unique Number 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)

18

16 () 19 () 100-c) 14 cst () 100-c)

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Laboratory

Sample No.

Lab Number



Report Id: GFL19DR [WUSCAR] 06047684 (Generated: 01/02/2024 12:41:24) Rev: 1

Submitted By: TIMOTHY WATSON