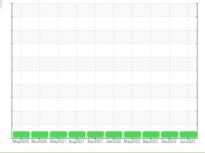


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **1926702**

Component Diesel Engine Fluid

PETRO CANADA DURON UHP 5W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info PCA0099756 PCA0083773 PCA0081322 Sample Date Client Info 01 Jun 2023 21 Dec 2022 18 Sep 2022 Machine Age mis Client Info 283380 0 248750 Oil Age mis Client Info 0 40000 20809 Oil Age mis Client Info Changed NorRMAL NorRMAL Sample Status Nethod Se.0 <1.0 <1.0 NorRMAL CONTAMINATION method Se.0 <1.0 <1.0 NorRMAL WC Onthod Se.0 <1.0 <1.0 <1.0 NorRMAL Water WC Method Se.0 <1.0 <1.0 NorRG NEG Rivor WC Method Se.0 <1.0 <1.0 <1.0 <1.0 VeAnterLS method Imitbase current Nistory1 Nistory2 Rivor PM ASTM D51655 >22 <1 <1 <1 <1 <1	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age mis Client Info 283388 0 245750 Oil Age rnis Client Info 0 40000 20809 Oil Changed Client Info 0 40000 20809 Oil Changed Client Info 0 40000 20809 Sample Status Imit/base current NoRMAL NORMAL CONTAMINATION method 6.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Chromium ppm ASTM DS185m >20 <1 <1 <1 Nickel ppm ASTM DS185m >20 <1 1 <2 Silver ppm ASTM DS185m >20 <1 1 2 Copper ppm ASTM DS185m >30 3 5 5 Tin ppm ASTM DS185m >1 <1	Sample Number		Client Info		PCA0099756	PCA0083773	PCA0081352
Oil Age mis Client Info 0 40000 20809 Oil Changed Client Info Changed No RMAL No RMAL No RMAL Sample Status method limit/bases current history1 history2 Fuel WC Method >6.0 <1.0 <1.0 <1.0 Water WC Method >0.0 NEG NEG NEG Glycol WC Method >0.0 16 26 17 Veramium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >2 0 <1 1 2 Copper ppm ASTM D5185m >2 3 2 2 2 2 Copper ppm ASTM D5185m >30 3 5 5 5 Tatanium ppm ASTM D5185m 0 <1	Sample Date		Client Info		01 Jun 2023	21 Dec 2022	18 Sep 2022
Oil Changed Sample Status Client Info Changed NORMAL Nor Changed NORMAL Nor Changed NORMAL Nor Changed NORMAL CONTAMINATION method limit/base current history1 history2 Fuel 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 >20 <1 <1 <1 Nickel ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >20 <1 0 0 Silver ppm ASTM D5185m >20 <1 1 2 Lead ppm ASTM D5185m >20 <1 1 2 Lead ppm ASTM D5185m >25 3 2 2 2 Lead ppm ASTM D5185m >40 <1 1 2 Copper ppm ASTM D5185m >15 <1 <1 2 Cadmium ppm ASTM D5185m 0 0 0 0 Roon<	Machine Age	mls	Client Info		283388	0	245750
Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >6.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM 05165m >100 16 26 17 Chromium ppm ASTM 05165m >2 <1 0 0 Itanium ppm ASTM 05185m >2 0 <1 1 2 Lead ppm ASTM 05185m >25 3 2 2 2 Lead ppm ASTM 05185m >10 <1 2 2 Copper ppm ASTM 05185m 0 <1 1 2	Oil Age	mls	Client Info		0	40000	20809
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >6.0. <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >2 <1 0 0 Titanium ppm ASTM D5185m >2 0 <1 1 Aluminum ppm ASTM D5185m >2 0 <1 1 2 2 Lead ppm ASTM D5185m >2 1 <1 <1 2 2 Copper ppm ASTM D5185m 0 0 <1 2 2 Cadmium ppm ASTM D5185m 0 </th <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Changed</th> <th>Not Changd</th>	Oil Changed		Client Info		Changed	Changed	Not Changd
Fuel WC Method >6.0 <1.0	Sample Status				NORMAL	NORMAL	NORMAL
Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >100 16 26 17 Chromium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >2 <1 0 0 Silver ppm ASTM D5185m >2 0 <1 1 Aluminum ppm ASTM D5185m >2 0 <1 1 Aluminum ppm ASTM D5185m >25 3 2 2 Lead ppm ASTM D5185m >40 <1 1 2 Copper ppm ASTM D5185m >41 <1 <1 1 Vanadium ppm ASTM D5185m 0 4 0 2 Barium ppm ASTM D5185m 0 4 1	CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >2 <1 0 0 Titanium ppm ASTM D5185m >2 0 <1 1 Aluminum ppm ASTM D5185m >2 0 <1 1 Aluminum ppm ASTM D5185m >2 0 <1 1 Aluminum ppm ASTM D5185m >25 3 2 2 Lead ppm ASTM D5185m >1 <1 <1 <1 Vanadium ppm ASTM D5185m 0 <1 2 2 Cadmium ppm ASTM D5185m 0 <1 1 1 Vanadium ppm ASTM D5185m 0 <1 1 1	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 16 26 17 Chromium ppm ASTM D5185m >20 <1 21 26 17 Nickel ppm ASTM D5185m >20 <1 0 0 Titanium ppm ASTM D5185m >2 0 <11 1 Aluminum ppm ASTM D5185m >2 0 <11 1 2 Copper ppm ASTM D5185m >2 0 <11 1 2 Copper ppm ASTM D5185m >330 3 5 5 5 Tin ppm ASTM D5185m 0 <1 0 0 0 Vanadium ppm ASTM D5185m 0 4 0 2 2 Cadmium ppm ASTM D5185m 0 4 0 2 2	Water		WC Method	>0.2	NEG	NEG	NEG
Iron ppm ASTM D5185m >100 16 26 17 Chromium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >2 <1 0 0 Titanium ppm ASTM D5185m >2 <1 0 0 Silver ppm ASTM D5185m >2 0 <1 1 2 Lead ppm ASTM D5185m >2 3 5 5 5 Tin ppm ASTM D5185m >15 <1 <1 2 2 Cadmium ppm ASTM D5185m >15 <1 <1 2 2 Cadmium ppm ASTM D5185m >15 <1 <1 1 1 2 Cadmium ppm ASTM D5185m 0 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< th=""><th>Glycol</th><th></th><th>WC Method</th><th></th><th>NEG</th><th>NEG</th><th>NEG</th></t<>	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 <1	Iron	ppm	ASTM D5185m	>100	16	26	17
Titanium ppm ASTM D5185m 9 27 34 Silver ppm ASTM D5185m >2 0 <1 1 Aluminum ppm ASTM D5185m >25 3 2 2 Lead ppm ASTM D5185m >40 <1 1 2 Copper ppm ASTM D5185m >330 3 5 5 Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium ppm ASTM D5185m 0 <1 0 0 Cadmium ppm ASTM D5185m 0 4 0 2 Boron ppm ASTM D5185m 0 4 0 2 Barium ppm ASTM D5185m 0 <1 1 1 Maganese ppm ASTM D5185m 0 <11 1 1 1 Maganesium ppm ASTM D5185m 160 813 635 <td< th=""><th>Chromium</th><th>ppm</th><th>ASTM D5185m</th><th>>20</th><th><1</th><th><1</th><th><1</th></td<>	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Silver ppm ASTM D5185m >2 0 <1	Nickel	ppm	ASTM D5185m	>2	<1	0	0
Aluminum ppm ASTM D5185m >25 3 2 2 Lead ppm ASTM D5185m >40 <1 1 2 Copper ppm ASTM D5185m >330 3 5 5 Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium ppm ASTM D5185m >15 <1 <1 <1 Vanadium ppm ASTM D5185m 0 <1 0 0 Cadmium ppm ASTM D5185m 0 4 0 2 Boron ppm ASTM D5185m 0 4 0 2 Barium ppm ASTM D5185m 0 4 0 2 Barium ppm ASTM D5185m 0 4 0 2 Barium ppm ASTM D5185m 0 0 0 0 Magnaese ppm ASTM D5185m 160 977 801 922 </th <th>Titanium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>9</th> <th>27</th> <th>34</th>	Titanium	ppm	ASTM D5185m		9	27	34
Lead ppm ASTM D5185m >40 <1	Silver	ppm	ASTM D5185m	>2	-	<1	
Copper ppm ASTM D5185m >330 3 5 5 Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium ppm ASTM D5185m >15 <1 <1 <1 Cadmium ppm ASTM D5185m 0 <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 4 0 2 Barium ppm ASTM D5185m 0 0 0 0 Molyddenum ppm ASTM D5185m 0 <1 <1 1 Magnesium ppm ASTM D5185m 0 <1 <1 1 Magnesium ppm ASTM D5185m 1160 813 635 634 Calcium ppm ASTM D5185m 1260 1203 999 1109 Sulfur ppm ASTM D5185m 3000 3701	Aluminum	ppm	ASTM D5185m	>25	3	2	2
Tin ppm ASTM D5185m >15 <1	Lead	ppm	ASTM D5185m	>40	<1	1	2
Vanadium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>330	3	5	5
Cadmium ppm ASTM D5185m <1	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 4 0 2 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 64 51 37 33 Maganese ppm ASTM D5185m 0 <1 <1 1 Magnesium ppm ASTM D5185m 1160 813 635 634 Calcium ppm ASTM D5185m 1160 977 801 922 Zinc ppm ASTM D5185m 1260 1203 999 1109 Sulfur ppm ASTM D5185m 3000 3701 2995 3336 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m >20 <	Vanadium	ppm	ASTM D5185m		0	<1	2
Boron ppm ASTM D5185m 0 4 0 2 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 64 51 37 33 Manganese ppm ASTM D5185m 0 <1 1 1 Magnesium ppm ASTM D5185m 0 <1 1 1 Magnesium ppm ASTM D5185m 1160 813 635 634 Calcium ppm ASTM D5185m 1160 977 801 922 Zinc ppm ASTM D5185m 1260 1203 9999 1109 Sulfur ppm ASTM D5185m 3000 3701 2995 3336 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 1 3 Potassium ppm ASTM D5185m >20	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 64 51 37 33 Manganese ppm ASTM D5185m 0 <1 1 1 Magnesium ppm ASTM D5185m 1160 813 635 634 Calcium ppm ASTM D5185m 1160 813 635 634 Calcium ppm ASTM D5185m 1160 977 801 922 Zinc ppm ASTM D5185m 1260 1203 999 1109 Sulfur ppm ASTM D5185m 3000 3701 2995 3336 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 1 3 Potassium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base	ADDITIVES		method	limit/base	current	history1	history2
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Maganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 1160 813 635 634 Calcium ppm ASTM D5185m 820 1161 1171 1310 Phosphorus ppm ASTM D5185m 1160 977 801 922 Zinc ppm ASTM D5185m 1260 1203 999 1109 Sulfur ppm ASTM D5185m 3000 3701 2995 3336 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/.1mm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/.1mm *ASTM D741	Molybdenum	ppm	ASTM D5185m	64	51	37	33
Calcium ppm ASTM D5185m 820 1161 1171 1310 Phosphorus ppm ASTM D5185m 1160 977 801 922 Zinc ppm ASTM D5185m 1260 1203 999 1109 Sulfur ppm ASTM D5185m 3000 3701 2995 3336 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m >20 2 1 3 Potassium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/rm< *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/.tmm< *ASTM D7415 >30 1	Manganese	ppm	ASTM D5185m	0	<1		
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Zinc ppm ASTM D5185m 1260 1203 999 1109 Sulfur ppm ASTM D5185m 3000 3701 2995 3336 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m >20 2 1 3 Potassium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/tmm *ASTM D7415 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414<	Calcium	ppm	ASTM D5185m		1161		
Sulfur ppm ASTM D5185m 3000 3701 2995 3336 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m >20 2 1 3 Potassium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/tm *ASTM D7415 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414		ppm			-		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m >20 2 13 10 Potassium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/.tmm *ASTM D7415 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 15.6 19.8 19.0	-	ppm					
Silicon ppm ASTM D5185m >25 4 5 5 Sodium ppm ASTM D5185m 9 13 10 Potassium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/tm *ASTM D7415 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 19.8 19.0			ASTM D5185m	3000	3701	2995	3336
Sodium ppm ASTM D5185m 9 13 10 Potassium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 19.8 19.0	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 19.8 19.0		ppm		>25	4		
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/.tmm *ASTM D7624 >20 9.0 10.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 15.6 19.8 19.0		ppm			9	13	10
Soot % % *ASTM D7844 >3 0.5 0.7 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 19.8 19.0	Potassium	ppm	ASTM D5185m	>20	2	1	3
Nitration Abs/cm *ASTM D7624 >20 9.0 10.7 10.7 Sulfation Abs/.1mm *ASTM D7615 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 19.8 19.0	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.7 24.8 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 19.8 19.0							
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 19.8 19.0	Nitration						
Oxidation Abs/.1mm *ASTM D7414 >25 15.6 19.8 19.0			*ASTM D7/15	>30	19.7	24.8	24.2
	Sulfation	Abs/.1mm	A01101410	200			
Base Number (BN) mg KOH/g ASTM D2896 11.0 7.9 5.0 6.7							
	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2



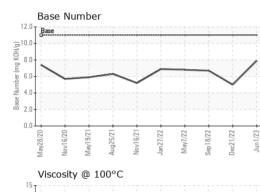
14 Abnorm

13 cSt (100°C) Bas

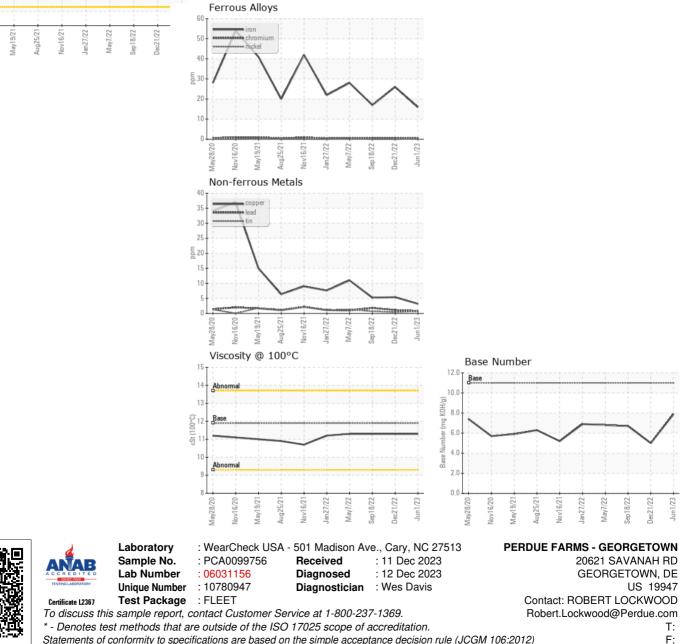
Abnorm

Mav28/20 Vov16/20

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	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	11.3	11.3	11.3
GRAPHS						



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

Contact/Location: ROBERT LOCKWOOD - PERGEODE