

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **198M** Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (--- 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.

GlycolWC MethodNEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>20014156ChromiumppmASTM D5185m>2022<1NickelppmASTM D5185m>20<1<1TitaniumppmASTM D5185m>20<1<1SilverppmASTM D5185m>20<1<1AluminumppmASTM D5185m>30762LeadppmASTM D5185m>30543TinppmASTM D5185m>15<1<1<1VanadiumppmASTM D5185m>15<1<1<1CadmiumppmASTM D5185m00<13BoronppmASTM D5185m0013BariumppmASTM D5185m00<13BariumppmASTM D5185m00<13BariumppmASTM D5185m00<13BariumppmASTM D5185m00<13BariumppmASTM D5185m060616560ManganeseppmASTM D5185m0<1<11	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 19260 19187 18368 Oil Age hrs Client Info 19187 18368 16245 Oil Changed Client Info 19187 18368 16245 Oil Changed Client Info 19187 18368 16245 Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Imit/base current History1 History2 Fuel WC Method >3.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Chromium ppm ASTM D5185m >20 2 <1 1 Nickel ppm ASTM D5185m >20 0 <1 1 Auminum ppm ASTM D5185m >20 0 <1 1 Auminum ppm ASTM D5185m >20 0 <1 1 Copper ppm ASTM D5185m 3	Sample Number		Client Info		GFL0108779	GFL0108941	GFL0101564
Oil Age hrs Client Info 19187 18368 16245 Oil Changed Client Info Changed N/A Sample Status Imitbase current NoRMAL NORMAL CONTAMINATION method imitbase current history1 history2 Fuel WC Method >3.0 <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 05185m >20 2 <1 1 Nickel ppm ASTM 05185m >2 0 <1 1 Silver ppm ASTM 05185m >30 7 6 2 1 Cadmium ppm ASTM 05185m 30 5 4 3 1 Cadmium ppm ASTM	Sample Date		Client Info		12 Mar 2024	29 Feb 2024	10 Nov 2023
Oli Changed Client Info Changed NORMAL N/A Sample Status Imit base current NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >0.2 NEG NEG NEG Giycol WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 14 15 6 Chromium ppm ASTM D5185m >20 2 2 1 Nickel ppm ASTM D5185m >20 0 1 1 Silver ppm ASTM D5185m >20 0 21 21 Copper ppm ASTM D5185m >30 0 0 21 21 Copper ppm ASTM D5185m 30 0 21 21 Copper pp	Machine Age	hrs	Client Info		19260	19187	18368
Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <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 2 <1 Nickel ppm ASTM D5185m >20 0 <1 <1 Muminum ppm ASTM D5185m >20 0 <1 <1 Aluminum ppm ASTM D5185m >30 7 6 2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Oil Age	hrs	Client Info		19187	18368	16245
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glysol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 2 2 <1 Nickel ppm ASTM D5185m >2 0 <1 <1 Silver ppm ASTM D5185m >2 0 <1 <1 Silver ppm ASTM D5185m >30 7 6 2 Lead ppm ASTM D5185m >30 5 4 3 3 Tin ppm ASTM D5185m 0 0 <1 3 Barium ppm ASTM D5185m 0 0 <1	Oil Changed		Client Info		Changed	Changed	N/A
Fuel WC Method >3.0 <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 >200 14 15 6 Chromium ppm ASTM D5185m >20 2 2 <1 Nickel ppm ASTM D5185m >2 0 <1 <1 Silver ppm ASTM D5185m >2 0 0 <1 Aluminum ppm ASTM D5185m >2 0 0 <1 Aluminum ppm ASTM D5185m >30 7 6 2 Lead ppm ASTM D5185m >30 5 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 <1 3 Barium ppm ASTM D5185m 0 0 1 3 Barium ppm ASTM D5185m 0 0	CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol WC Method NEG NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >200 14 15 6 Chromium ppm ASTM D5185m >20 2 2 <1 Nickel ppm ASTM D5185m >2 0 <1 <1 Silver ppm ASTM D5185m >2 0 <1 <1 Auminum ppm ASTM D5185m >30 7 6 2 Lead ppm ASTM D5185m >30 5 4 3 3 Tin ppm ASTM D5185m 0 0 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 1 3 Baron pm ASTM D5185m 0 0 <1 1 Kanadium ppm ASTM D5185m 0 0 </th <th>Fuel</th> <th></th> <th>WC Method</th> <th>>3.0</th> <th><1.0</th> <th><1.0</th> <th><1.0</th>	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >200 14 15 6 Chromium ppm ASTM D5185m >20 2 2 1 Nickel ppm ASTM D5185m >2 0 <1 <1 Titanium ppm ASTM D5185m >2 0 <1 <1 Silver ppm ASTM D5185m >30 0 0 <1 Lead ppm ASTM D5185m >30 5 4 3 Copper ppm ASTM D5185m >30 5 4 3 Lead ppm ASTM D5185m 0 0 <11 <1 Cadmium ppm ASTM D5185m 0 0 1 3 Barium ppm ASTM D5185m 0 0 1 3 Barium ppm ASTM D5185m 0 0 1 <th>Water</th> <th></th> <th>WC Method</th> <th>>0.2</th> <th>NEG</th> <th>NEG</th> <th>NEG</th>	Water		WC Method	>0.2	NEG	NEG	NEG
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Chromium ppm ASTM D5185m >20 2 2 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 0 <1	Iron	ppm	ASTM D5185m	>200	14	15	6
Titanium ppm ASTM D5185m >2 0 <1	Chromium	ppm	ASTM D5185m	>20	2	2	<1
Silver ppm ASTM D5185m >2 0 0 <1	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Atuminum ppm ASTM D5185m >30 7 6 2 Lead ppm ASTM D5185m >30 0 0 <1 Copper ppm ASTM D5185m >30 5 4 3 Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium ppm ASTM D5185m 0 <1 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 <1 <1 Cadmium ppm ASTM D5185m 0 0 1 3 3 Boron ppm ASTM D5185m 0 0 0 <1 3 Barium ppm ASTM D5185m 0 0 <1 3 Barium ppm ASTM D5185m 0 0 <1 0 <1 3 Barium ppm ASTM D5185m 0 0 <1 0 10 10 106 1066	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Lead ppm ASTM D5185m >30 0 0 <1	Silver	ppm	ASTM D5185m	>2	0	0	<1
Copper ppm ASTM D5185m >30 5 4 3 Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium ppm ASTM D5185m 0 <1 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 1 3 Barium ppm ASTM D5185m 0 0 0 <1 3 Molybdenum ppm ASTM D5185m 0 61 65 60 Magnesium ppm ASTM D5185m 1010 934 973 910 Calcium ppm ASTM D5185m 1070 1100 1096 1086 Phosphorus ppm ASTM D5185m 1270 1253 1281 1208 Sulfur ppm ASTM D5185m 2060<	Aluminum	ppm	ASTM D5185m	>30	7	6	2
Tin ppm ASTM D5185m >15 <1	Lead	ppm	ASTM D5185m	>30	0	0	<1
Vanadium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>30	5	4	3
Cadmium ppm ASTM D5185m 0 0 <1	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 1 3 Barium ppm ASTM D5185m 0 0 0 <1 Molybdenum ppm ASTM D5185m 60 61 65 60 Magnesium ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 1010 934 973 910 Calcium ppm ASTM D5185m 1070 1100 1096 1086 Phosphorus ppm ASTM D5185m 1270 1253 1281 1208 Sulfur ppm ASTM D5185m 2060 3068 3019 3092 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 6 4 Sodium ppm ASTM D5185m 20 <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th><1</th> <th><1</th>	Vanadium	ppm	ASTM D5185m		0	<1	<1
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Manganese ppm ASTM D5185m 0 <1		ppm					
Magnesium ppm ASTM D5185m 1010 934 973 910 Calcium ppm ASTM D5185m 1070 1100 1096 1086 Phosphorus ppm ASTM D5185m 1150 1032 999 1017 Zinc ppm ASTM D5185m 1270 1253 1281 1208 Sulfur ppm ASTM D5185m 2060 3068 3019 3092 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 6 4 Sodium ppm ASTM D5185m >20 <1 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 8.4 8.3 5.8 Sulfation Abs/.1mm *ASTM D74	Boron		ASTM D5185m	0	0	1	3
Calcium ppm ASTM D5185m 1070 1100 1096 1086 Phosphorus ppm ASTM D5185m 1150 1032 999 1017 Zinc ppm ASTM D5185m 1270 1253 1281 1208 Sulfur ppm ASTM D5185m 2060 3068 3019 3092 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 6 6 4 Sodium ppm ASTM D5185m >20 <1 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 8.4 8.3 5.8 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 18.3 FLUID DEGRADATION method	Boron	ppm	ASTM D5185m ASTM D5185m	0	0 0	1 0	3 <1
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Silicon ppm ASTM D5185m >30 6 6 4 Sodium ppm ASTM D5185m 20 2 3 0 Potassium ppm ASTM D5185m >20 <1	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	0 0 60 0 1010 1070 1150	0 0 61 <1 934 1100 1032	1 0 65 0 973 1096 999	3 <1 60 <1 910 1086 1017
Sodium ppm ASTM D5185m 2 3 0 Potassium ppm ASTM D5185m >20 <1 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 8.4 8.3 5.8 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 18.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 16.3 13.6	Boron 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 ASTM D5185m	0 0 60 0 1010 1070 1150 1270	0 0 61 <1 934 1100 1032 1253	1 0 65 0 973 1096 999 1281	3 <1 60 <1 910 1086 1017 1208
Potassium ppm ASTM D5185m >20 <1	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 0 1010 1070 1150 1270 2060	0 0 61 <1 934 1100 1032 1253 3068	1 0 65 0 973 1096 999 1281 3019	3 <1 60 <1 910 1086 1017 1208 3092
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 8.4 8.3 5.8 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 18.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 16.3 13.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	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 0 60 1010 1070 1150 1270 2060 limit/base	0 0 61 <1 934 1100 1032 1253 3068 current	1 0 65 0 973 1096 999 1281 3019 history1	3 <1 60 <1 910 1086 1017 1208 3092 history2
Soot % % *ASTM D7844 >3 0.6 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 8.4 8.3 5.8 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 18.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 16.3 13.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm 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	0 0 60 1010 1070 1150 1270 2060 limit/base	0 0 61 <1 934 1100 1032 1253 3068 current 6	1 0 65 0 973 1096 999 1281 3019 history1 6	3 <1 60 <1 910 1086 1017 1208 3092 history2 4
Nitration Abs/cm *ASTM D7624 >20 8.4 8.3 5.8 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 18.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 16.3 13.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >30	0 0 61 <1 934 1100 1032 1253 3068 current 6 2	1 0 65 0 973 1096 999 1281 3019 history1 6 3	3 <1 60 <1 910 1086 1017 1208 3092 history2 4 0
Sulfation Abs/.1mm *ASTM D7415 >30 20.0 19.6 18.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 16.3 13.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >30	0 0 61 <1 934 1100 1032 1253 3068 current 6 2 2 <1	1 0 65 0 973 1096 999 1281 3019 history1 6 3 3	3 <1 60 <1 910 1086 1017 1208 3092 history2 4 0 2
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 16.3 13.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >30 >20 limit/base	0 0 61 <1 934 1100 1032 1253 3068 <i>current</i> 6 2 <1 <i>current</i>	1 0 65 0 973 1096 999 1281 3019 history1 6 3 3 3	3 <1 60 <1 910 1086 1017 1208 3092 history2 4 0 2 history2
Oxidation Abs/.1mm *ASTM D7414 >25 16.7 16.3 13.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 <i>limit/base</i> >30 <i>s</i> 20 <i>limit/base</i>	0 0 61 <1 934 1100 1032 1253 3068 <i>current</i> 6 2 <1 <i>current</i> 0.6	1 0 65 0 973 1096 999 1281 3019 history1 6 3 3 3 <i>history1</i> 0.5	3 <1 60 <1 910 1086 1017 1208 3092 history2 4 0 2 history2 0.2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >30 imit/base >30	0 0 61 <1 934 1100 1032 1253 3068 <i>current</i> 6 2 <1 6 2 <1 <i>current</i> 0.6 8.4	1 0 65 0 973 1096 999 1281 3019 history1 6 3 3 3 history1 0.5 8.3	3 <1 60 <1 910 1086 1017 1208 3092 history2 4 0 2 history2 0.2 5.8
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium 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 >30 >20 imit/base >3 >20 >30	0 0 61 <1 934 1100 1032 1253 3068 <u>current</u> 6 2 <1 <u>current</u> 0.6 8.4 20.0	1 0 65 0 973 1096 999 1281 3019 history1 6 3 3 3 <u>history1</u> 0.5 8.3 19.6	3 <1 60 <1 910 1086 1017 1208 3092 history2 4 0 2 history2 0.2 5.8 18.3
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	0 0 0 1010 1070 1150 1270 2060 imit/base >30 imit/base >30 imit/base	0 0 61 <1 934 1100 1032 1253 3068 <i>current</i> 6 2 <1 <i>current</i> 0.6 8.4 20.0	1 0 65 0 973 1096 999 1281 3019 history1 6 3 3 bistory1 0.5 8.3 19.6 history1	3 <1 60 <1 910 1086 1017 1208 3092 history2 4 0 2 history2 0.2 5.8 18.3 history2



13 Abnormal 12 11

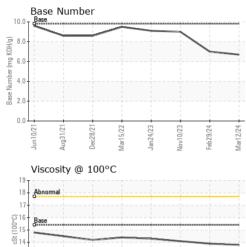
125 Jun10/21

Aug31/21.

Dec28/21

OIL ANALYSIS REPORT

VISUAL



	Sample Lab Nur Unique N Test Pac	Sample No. : GFL0108779 Lab Number : 06116805 Unique Number : 10925638 Test Package : FLEET sample report, contact Customer Servit				Received: 13 Mar 2024Tested: 14 Mar 2024Diagnosed: 14 Mar 2024 - Wes Davis				ronmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514		
			Viscosity Abnormal 10 10 10 10 10 10 10 10 10 10	v @ 100°C	Mar15/22	Nov10/23		Base Numi 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	Dec28/21		Nov/10/23	Mar12/24
			und mugal/21/21	Dec28/2/1	Mari5/22 Jan24/23	Nov10/23	Mar12/24					
				1278728/21	5 Mar15/22 Jan24/23	Nov10/23	Mar12/24					
Mart 5/22	Nov10/23 +	VCCPTW	12 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			[_					
			FLUID Visc @ 10	PROPE 0°C	RTIES cSt	method ASTM D445	limit/bas 15.4	e current 13.8	his 13.9	story1	histor 14.1	y2
			Emulsified Free Wate	er	scalar scalar	*Visual *Visual	>0.2	NEG NEG	NEC		NEG NEG	
Mar15/22 Jan24/23	Nov10/23 Feb29/24	Mar12/24	Odor		scalar	*Visual	NORML	NORML	NO	RML	NORM	
23	23 -	24	Sand/Dirt Appearan	20	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	ION ION		NONE NORMI	
			Debris		scalar	*Visual	NONE	NONE	NOI		NONE	
			Silt		scalar	*Visual	NONE	NONE	NOI	١E	NONE	
			Precipitate		scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	ION ION		NONE NONE	
			Yellow Me									