

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 729097 Component

Fluid

Diesel Engine

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.

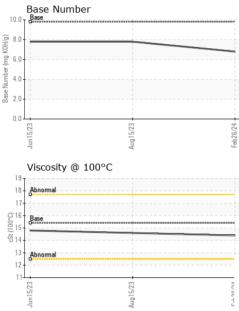
Fluid Condition

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

Sample Number Client Info GFL0097806 GFL0095315 GFL0085312 Sample Date Client Info 26 Feb 2024 15 Aug 2023 15 Jun 2023 Machine Age hrs Client Info 11297 588 0 Oil Age hrs Client Info NA N/A N/A Sample Status Client Info NA N/A N/A N/A CONTAMINATION method 5.5 <1.0 <1.0 NoRMAL NORMAL Valar WC Method >5.2 <1.0 <1.0 NEG NEG Water WC Method >5.2 <1.0 <1.0 <1.0 Valar MSTM D51655 >2.2 <1 <1.0 <1.0 Valar MSTM D51655 >3.0 0 0 0 <1.0 Vickel ppm ASTM D51655 >3.0 0 0 0 0 0 Vickel ppm ASTM D51655 >3.0 0 0 0 0 </th <th>SAMPLE INFORM</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Date Client Info 26 Feb 2024 15 Aug 2023 15 Jun 2023 Machine Age hrs Client Info 11297 2603 11297 Oil Age hrs Client Info 11297 2603 11297 Oil Changed Client Info 11297 588 0 Oil Changed Client Info NVA N/A N/A Sample Status Imathe Mark NORMAL NORMAL NORMAL CONTAMINATION method Imit/base current History1 History2 Fuel WC Method >0 410 NEG NEG NEG Vatar WC Method NEG NEG NEG NEG NEG Vickel ppm ASTM D5185m >80 31 18 22 Chromium ppm ASTM D5185m >2 <1 0 0 Nickel ppm ASTM D5185m >3 0 0 0 0 Silver ppm	Sample Number		Client Info		GFL0097806	GFL0085315	GFL0085323	
Oil Age Ins Client Info 11297 588 0 Oil Changed Client Info NA NA NA NA Sample Status Client Info NA NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Wear WC Method >0.2 NEG NEG NEG Iron ppm ASTM D5185m >5 2 <1 <1 Iron ppm ASTM D5185m >5 2 <1 0 0 Ikickel ppm ASTM D5185m >3 0 0 0 0 Aluminum ppm ASTM D5185m 30 0 0 0 0 Auminum ppm ASTM D5185m >30 0 0 0			Client Info		26 Feb 2024	15 Aug 2023	15 Jun 2023	
Oll Changed Client Info N/A N/A N/A N/A Sample Status Image of the status Image of the status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0	Machine Age	hrs	Client Info		11297	2603	11297	
Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <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 >80 31 18 22 Chromium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Auminum ppm ASTM D5185m >30 0 0 0 Vanadium ppm ASTM D5185m >5 <1 0 0 Vanadium ppm ASTM D5185m 0 4 0 5 Bariu	Oil Age	hrs	Client Info		11297	588		
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >5 2 <1 <1 Iron ppm ASTM D5185m >5 2 <1 <1 Nickel ppm ASTM D5185m 30 0 0 0 Silver ppm ASTM D5185m >30 0 0 0 Lead ppm ASTM D5185m >30 0 0 0 Cadmium ppm ASTM D5185m >5 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 1 <1 1 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>N/A</th> <th>N/A</th>	Oil Changed		Client Info		N/A	N/A	N/A	
Fuel WC Method<>5 <1.0	Sample Status				NORMAL	NORMAL	NORMAL	
Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >5 2 <1 <1 Nickel ppm ASTM 05185m >2 <1 0 0 Silver ppm ASTM 05185m >3 0 0 0 Silver ppm ASTM 05185m >3 0 0 0 Copper ppm ASTM 05185m >30 5 1 2 Lead ppm ASTM 05185m >30 0 0 0 Copper ppm ASTM 05185m >5 <1 0 0 Vanadium ppm ASTM 05185m 0 0 0 0 Astm 05185m 0 4 0 5 5 1	CONTAMINAT	ION	method	limit/base	current	history1	history2	
Glycol WC Method NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 31 18 22 Chromium ppm ASTM D5185m >5 2 <1 0 0 Nickel ppm ASTM D5185m >2 <1 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 5 1 2 Lead ppm ASTM D5185m >150 2 3 1 Tin ppm ASTM D5185m >5 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 4 0 5 Baron ppm ASTM D5185m 0 4 0 5	Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >80 31 18 22 Chromium ppm ASTM D5185m >5 2 <1 <1 Nickel ppm ASTM D5185m >2 <1 0 0 Titanium ppm ASTM D5185m >2 <1 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >5 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 4 0 5 Boron ppm ASTM D5185m 0 4 0 5 Magnesium ppm ASTM D5185m 0 4 1 1<	Water		WC Method	>0.2	NEG	NEG	NEG	
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Chromium ppm ASTM D5185m >5 2 <1	WEAR METAL	S	method	limit/base	current	history1	history2	
Chromium ppm ASTM D5185m >5 2 <1	Iron	ppm	ASTM D5185m	>80	31	18	22	
Nickel ppm ASTM D5185m >2 <1	Chromium		ASTM D5185m	>5	2	<1	<1	
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 5 1 2 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >150 2 3 1 Tin ppm ASTM D5185m >5 <1 0 0 Vanadium ppm ASTM D5185m >5 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method Imit/base current history1 history2 Boron ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 100 92 956 994	Nickel				<1			
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Aluminum ppm ASTM D5185m >30 5 1 2 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >150 2 3 1 Tin ppm ASTM D5185m >5 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 4 0 5 Boron ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 4 1 <1 Magnese ppm ASTM D5185m 0 4 1 <1 Magnesium ppm ASTM D5185m 1070 1009 1031 1096 Phosphorus ppm ASTM D5185m 1270 1254 1233	Silver		ASTM D5185m	>3	0	0		
Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >150 2 3 1 Tin ppm ASTM D5185m >5 <1 0 0 Vanadium ppm ASTM D5185m < 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 4 0 5 Boron ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 4 1 1 Magnanese ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 100 1009 1016 106 Zinc ppm ASTM D5185m 120 1008 966	Aluminum		ASTM D5185m	>30	5	1	2	
Copper ppm ASTM D5185m >150 2 3 1 Tin ppm ASTM D5185m >5 <1 0 0 Vanadium ppm ASTM D5185m >5 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1070 1008 966 1016 Zinc ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 206 2770	Lead	ppm	ASTM D5185m	>30	0	0	0	
Tin ppm ASTM D5185m >5 <1	Copper		ASTM D5185m	>150	2	3	1	
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 4 0 5 Manganese ppm ASTM D5185m 0 <1			ASTM D5185m	>5	<1	0	0	
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 57 60 59 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1010 922 956 1016 Zinc ppm ASTM D5185m 1070 1009 1031 1096 Sulfur ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 2060 2770 3302 3502 Sodium ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20	Vanadium	ppm	ASTM D5185m		0	0	0	
Boron ppm ASTM D5185m 0 4 0 5 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 57 60 59 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1010 922 956 1016 Zinc ppm ASTM D5185m 1070 1009 1031 1096 Sulfur ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 2060 2770 3302 3502 Sulfur ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20	Cadmium	ppm	ASTM D5185m		0	0	0	
Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 60 57 60 59 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1010 922 956 1016 Zinc ppm ASTM D5185m 1070 1009 1031 1096 Sulfur ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 2060 2770 3302 3502 Silicon ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/ba	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum ppm ASTM D5185m 60 57 60 59 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1070 1009 1031 1096 Phosphorus ppm ASTM D5185m 1770 1254 1233 1306 Sulfur ppm ASTM D5185m 2060 2770 3302 3502 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/base current history1 history2 Soot % % 'ASTM D7624	Boron	ppm	ASTM D5185m	0	4	0	5	
Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	0	0	0	0	
Magnesium ppm ASTM D5185m 1010 922 956 994 Calcium ppm ASTM D5185m 1070 1009 1031 1096 Phosphorus ppm ASTM D5185m 1150 1008 966 1016 Zinc ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 2060 2770 3302 3502 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/.1mm *ASTM D7415	Molybdenum	ppm	ASTM D5185m	60	57	60	59	
Calcum ppm ASTM D5185m 1070 1009 1031 1096 Phosphorus ppm ASTM D5185m 1150 1008 966 1016 Zinc ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 2060 2770 3302 3502 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/.m *ASTM D7624 >20 <th>Manganese</th> <th>ppm</th> <th>ASTM D5185m</th> <th>0</th> <th><1</th> <th><1</th> <th><1</th>	Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Phosphorus ppm ASTM D5185m 1150 1008 966 1016 Zinc ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 2060 2770 3302 3502 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/.mm< *ASTM D7415	Magnesium	ppm	ASTM D5185m	1010	922	956	994	
Zinc ppm ASTM D5185m 1270 1254 1233 1306 Sulfur ppm ASTM D5185m 2060 2770 3302 3502 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/cm *ASTM D7624 >20 11.4 9.4 10.6 Sulfation Abs/tm *ASTM D7624 >20 11.4 9.4 10.6 Sulfation Abs/tm *ASTM D7415 >30 22.4 21.1 21.4 FLUID DEGRADATION method limit/b	Calcium	ppm	ASTM D5185m	1070	1009	1031	1096	
SulfurppmASTM D5185m2060277033023502CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20946SodiumppmASTM D5185m>20946SodiumppmASTM D5185m>20302PotassiumppmASTM D5185m>20302INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.90.80.7NitrationAbs/cm*ASTM D7624>2011.49.410.6SulfationAbs/1mm*ASTM D7415>3022.421.121.4FLUID DEGRADATION methodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2520.817.918.6	Phosphorus	ppm	ASTM D5185m	1150	1008	966	1016	
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20946SodiumppmASTM D5185m1037PotassiumppmASTM D5185m>20302INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.90.80.7NitrationAbs/cm*ASTM D7624>2011.49.410.6SulfationAbs/tm*ASTM D7415>3022.421.121.4FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2520.817.918.6	Zinc	ppm	ASTM D5185m	1270	1254	1233	1306	
Silicon ppm ASTM D5185m >20 9 4 6 Sodium ppm ASTM D5185m >20 10 3 7 Potassium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/cm *ASTM D7624 >20 11.4 9.4 10.6 Sulfation Abs/rm *ASTM D7624 >20 11.4 9.4 10.6 Culfation Abs/rm *ASTM D7415 >30 22.4 21.1 21.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/rm *ASTM D7414 >25 20.8 17.9 18.6	Sulfur	ppm	ASTM D5185m	2060	2770	3302	3502	
Sodium ppm ASTM D5185m 10 3 7 Potassium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/cm *ASTM D7624 >20 11.4 9.4 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 22.4 21.1 21.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.8 17.9 18.6	CONTAMINAN	TS	method	limit/base	current	history1	history2	
Potassium ppm ASTM D5185m >20 3 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/cm *ASTM D7624 >20 11.4 9.4 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 22.4 21.1 21.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.8 17.9 18.6	Silicon	ppm	ASTM D5185m	>20	9	4	6	
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/cm *ASTM D7624 >20 11.4 9.4 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 22.4 21.1 21.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.8 17.9 18.6	Sodium	ppm	ASTM D5185m		10	3	7	
Soot % % *ASTM D7844 >3 0.9 0.8 0.7 Nitration Abs/cm *ASTM D7624 >20 11.4 9.4 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 22.4 21.1 21.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.8 17.9 18.6	Potassium	ppm	ASTM D5185m	>20	3	0	2	
Nitration Abs/cm *ASTM D7624 >20 11.4 9.4 10.6 Sulfation Abs/.tmm *ASTM D7415 >30 22.4 21.1 21.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 20.8 17.9 18.6	INFRA-RED		method	limit/base	current	history1	history2	
Sulfation Abs/.1mm *ASTM D7415 >30 22.4 21.1 21.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.8 17.9 18.6	Soot %	%	*ASTM D7844	>3	0.9	0.8	0.7	
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.8 17.9 18.6	Nitration	Abs/cm	*ASTM D7624	>20	11.4	9.4	10.6	
Oxidation Abs/.1mm *ASTM D7414 >25 20.8 17.9 18.6	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.1	21.4	
	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
Base Number (BN) mg KOH/g ASTM D2896 9.8 6.8 7.8 7.8	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	17.9	18.6	
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	7.8	7.8	



OIL ANALYSIS REPORT



	Laboratory Sample No. Lab Number Unique Number							
		³³ 14 Abnormal 12 11 EZZ 51 ung	Aug15/23 +		-0.0 Base Mun 	Jun15/23	Aug15/23	Feb26/24
		Abnormal			(0, Hong Route 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			
		Viscosity @ 100°				Base Number	****	
		un15/23	Aug15/23		eb26/24			
		4 2						
		8 6						
		Non-ferrous Meta	Aug 15/23		Feb26/24			
		10 5 0 8	23		24			
Au	1	25 20 15	~					
Aug15/23	V G G C T J	Serrous Alloys			/			
		Visc @ 100°C GRAPHS	cSt	ASTM D445	15.4	14.4	14.6	14.8
		FLUID PROPE		method	limit/base	current	history1	history2
1	1	Free Water	scalar	*Visual		NEG	NEG	NEG
A	ш	Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
Aug 15/23	Feb 26/24	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
		Silt Debris	scalar scalar	*Visual *Visual	NONE	NONE NONE	NONE	NONE
		Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE