

### **OIL ANALYSIS REPORT**



### Machine Id

## 728000

#### 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 condition of the oil is acceptable for the time in service.

Sample Date         Client Info         10 May 2024             Machine Age         hrs         Client Info         0             Oil Age         brs         Client Info         0             Sample Status         Client Info         Changed             Sample Status         Client Info         Changed             CONTAMINATION         method         Imit/base         current         history1         history2           Fuel         WC Method         >5         <1.0             Water         WC Method         >0              Glycol         WC Method         >0         11             WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM 05180m         >100         11             Iron         ppm         ASTM 05180m         >20         <1             Iron         ppm         ASTM 05180m         0 <t< th=""><th>SAMPLE INFORI</th><th>MATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         197764             Oil Age         hrs         Client Info         0             Oil Changed         Client Info         0              Sample Status         Imit/base         current         history1             CONTAMINATION         method         Imit/base         current         history1            Water         WC Method         >0.2         NEG             Glycol         WC Method         >0.2         NEG             WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM 05185(m)         >10         11             Nickel         ppm         ASTM 05185(m)         >20         <1             Aluminum         ppm         ASTM 05185(m)         >3         0             Licad         ppm         ASTM 05185(m)         20         6             Auminum<	Sample Number		Client Info		GFL0120254		
Oil Age         hrs         Client Info         0             Oil Changed         Client Info         Changed             Sample Status         MORMAL              CONTAMINATION         method         limit/base         current         history1         history2           Fuel         WC Method         >5         <1.0             Water         WC Method         >0.2         NEG             Wet Method         >0.2         NEG              Wet Method         >0               Wet Method         >0               Nickel         ppm         ASTM 05180         >20         <1             Aluminum         ppm         ASTM 05180         >20         6             Copper         ppm         ASTM 05180         >30              Auminum         ppm         ASTM 05180         0	Sample Date		Client Info		10 May 2024		
Oil Changed         Client Info         Changed             Sample Status         Image: Status	Machine Age	hrs	Client Info		197764		
Sample Status         NORMAL             CONTAMINATION         method         limit/base         current         history1         history2           Fuel         WC Method         >5         <1.0             Water         WC Method         >0.2         NEG             Glycol         WC Method         NEG              WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >20         <1             Ohronium         ppm         ASTM D5185(m)         >20         <1             Silver         ppm         ASTM D5185(m)         >3         0             Copper         ppm         ASTM D5185(m)         >30              Antimony         ppm         ASTM D5185(m)         0              Vanadium         ppm         ASTM D5185(m)         0              Manimum	Oil Age	hrs	Client Info		0		
CONTAMINATION         method         limit/base         current         history1         history2           Fuel         WC Method         >5         <1.0             Glycol         WC Method         >0.2         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >100         11             Nickel         ppm         ASTM D5185(m)         >20         <1             Silver         ppm         ASTM D5185(m)         >40         0             Lead         ppm         ASTM D5185(m)         >20         6             Lead         ppm         ASTM D5185(m)         >30         <1             Yanadium         ppm         ASTM D5185(m)         >30              Vanadium         ppm         ASTM D5185(m)         0              Adminum         ppm         ASTM D5185(m)         0	Oil Changed		Client Info		Changed		
Fuel         WC Method         >5         <1.0	Sample Status				NORMAL		
Water         WC Method         >0.2         NEG             Glycol         WC Method         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5165(m)         >100         11             Othermium         ppm         ASTM D5165(m)         >20         <1             Nickel         ppm         ASTM D5165(m)         >3         0             Aluminum         ppm         ASTM D5165(m)         >3         0             Aluminum         ppm         ASTM D5165(m)         >40         0             Copper         ppm         ASTM D5165(m)         >15         0             Antimony         ppm         ASTM D5165(m)         >15         0             Cadmium         pm         ASTM D5165(m)         0              ADDTIVES         method         Iimit/base         current         history1         his	CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol         WC Method         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >100         11             Nickel         ppm         ASTM D5185(m)         >20         <1             Nickel         ppm         ASTM D5185(m)         >20         6             Aluminum         ppm         ASTM D5185(m)         >3         0             Aduminum         ppm         ASTM D5185(m)         >3         0             Lead         ppm         ASTM D5185(m)         >30         <1             Antimony         ppm         ASTM D5185(m)         >0              Antimony         ppm         ASTM D5185(m)         0              Antimony         ppm         ASTM D5185(m)         0              Antimony         ppm         ASTM D5185(m)         0 </th <th>Fuel</th> <th></th> <th>WC Method</th> <th>&gt;5</th> <th>&lt;1.0</th> <th></th> <th></th>	Fuel		WC Method	>5	<1.0		
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5165(m)         >20         <1             Ohromium         ppm         ASTM D5165(m)         >20         <1             Nickel         ppm         ASTM D5165(m)         >4         0             Titanium         ppm         ASTM D5165(m)         >3         0             Aluminum         ppm         ASTM D5165(m)         >30         0             Lead         ppm         ASTM D5165(m)         >40         0             Copper         ppm         ASTM D5165(m)         >30         <1             Antimony         ppm         ASTM D5165(m)         0              Antimony         ppm         ASTM D5165(m)         0              Antimony         ppm         ASTM D5165(m)         0         Cadmium         ppm         AST	Water		WC Method	>0.2	NEG		
Iron         ppm         ASTM D5185(m)         >100         11             Chromium         ppm         ASTM D5185(m)         >20         <1             Nickel         ppm         ASTM D5185(m)         >4         0             Silver         ppm         ASTM D5185(m)         >3         0             Aluminum         ppm         ASTM D5185(m)         >3         0             Lead         ppm         ASTM D5185(m)         >330         <1             Copper         ppm         ASTM D5185(m)         >330         <1             Matimony         ppm         ASTM D5185(m)         0              Antimony         ppm         ASTM D5185(m)         0              Cadmium         ppm         ASTM D5185(m)         0              ADDTIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM	Glycol		WC Method		NEG		
Chromium         ppm         ASTM 05185(m)         >20         <1	WEAR METAL	S	method	limit/base	current	history1	history2
Chromium         ppm         ASTM 05185(m)         >20         <1	Iron	ppm	ASTM D5185(m)	>100	11		
Nickel         ppm         ASTM D5185(m)         >4         0             Titanium         ppm         ASTM D5185(m)         >3         0             Silver         ppm         ASTM D5185(m)         >3         0             Aluminum         ppm         ASTM D5185(m)         >20         6             Lead         ppm         ASTM D5185(m)         >40         0             Copper         ppm         ASTM D5185(m)         >330         <1             Antimony         ppm         ASTM D5185(m)         >15         0             Antimony         ppm         ASTM D5185(m)         0              Antimony         ppm         ASTM D5185(m)         0              Antimony         ppm         ASTM D5185(m)         0              Adaminum         ppm         ASTM D5185(m)         0         0             Molybdenum         ppm	Chromium			>20	<1		
Titanium         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         >3         0             Aluminum         ppm         ASTM D5185(m)         >20         6             Lead         ppm         ASTM D5185(m)         >20         6             Copper         ppm         ASTM D5185(m)         >330         <1             Antimony         ppm         ASTM D5185(m)         >330         <1             Antimony         ppm         ASTM D5185(m)         >15         0             Antimony         ppm         ASTM D5185(m)         0              Antimony         ppm         ASTM D5185(m)         0         0             Adamium         ppm         ASTM D5185(m)         0         0             ADDITVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)			1				
Silver         ppm         ASTM D5185(m)         >3         0             Aluminum         ppm         ASTM D5185(m)         >20         6             Lead         ppm         ASTM D5185(m)         >40         0             Copper         ppm         ASTM D5185(m)         >330         <1             Antimony         ppm         ASTM D5185(m)         >15         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         0             Marganese         ppm         ASTM D5185(m)         0.0              Marganesium         ppm         ASTM D5185(m)         1010         949<	Titanium				0		
Aluminum         ppm         ASTM D5185(m)         >20         6             Lead         ppm         ASTM D5185(m)         >40         0             Copper         ppm         ASTM D5185(m)         >330         <1             Tin         ppm         ASTM D5185(m)         >15         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             ADDITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         0             Marganese         ppm         ASTM D5185(m)         0         0             Marganese         ppm         ASTM D5185(m)         0.10         949             Marganesium         ppm         ASTM D5185(m)         1070         10440 <th></th> <td></td> <td></td> <td>&gt;3</td> <th>0</th> <td></td> <td></td>				>3	0		
Lead         ppm         ASTM D5185(m)         >40         0             Copper         ppm         ASTM D5185(m)         >330         <1             Tin         ppm         ASTM D5185(m)         >15         0             Antimony         ppm         ASTM D5185(m)         0              Vanadium         ppm         ASTM D5185(m)         0              Beryllium         ppm         ASTM D5185(m)         0              ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         2             Molybdenum         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         1040        Sulfur         ppm         ASTM	Aluminum		ASTM D5185(m)	>20	6		
Copper         ppm         ASTM D5185(m)         >330         <1			× 7				
Tin         ppm         ASTM D5185(m)         >15         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         2             Molybdenum         ppm         ASTM D5185(m)         0         0             Manganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494         <	Copper			>330	<1		
Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         2             Molybdenum         ppm         ASTM D5185(m)         0         0             Maganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         10400             Vanadium         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494				>15	0		
Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         2             Barium         ppm         ASTM D5185(m)         0         0             Molybdenum         ppm         ASTM D5185(m)         0         0             Magnese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         010         949             Calcium         ppm         ASTM D5185(m)         1010         949             Sulfur         ppm         ASTM D5185(m)         1070         1040             Sulfur         ppm         ASTM D5185(m)         2060         2494 <th>Antimony</th> <td></td> <td>ASTM D5185(m)</td> <td></td> <th>0</th> <td></td> <td></td>	Antimony		ASTM D5185(m)		0		
Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         2             Barium         ppm         ASTM D5185(m)         0         0             Molybdenum         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         1040             Sulfur         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494             Stilicon         ppm         ASTM D5185(m)         >	Vanadium		ASTM D5185(m)		0		
Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         2             Barium         ppm         ASTM D5185(m)         0         0             Molybdenum         ppm         ASTM D5185(m)         0         0             Manganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         1040             Calcium         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494             Sulfur         ppm         ASTM D5185(m)         >20         <1	Beryllium		ASTM D5185(m)		0		
Boron         ppm         ASTM D5185(m)         0         2             Barium         ppm         ASTM D5185(m)         0         0             Molybdenum         ppm         ASTM D5185(m)         60         60             Manganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         1040             Phosphorus         ppm         ASTM D5185(m)         1270         1151             Zinc         ppm         ASTM D5185(m)         2060         2494             Sulfur         ppm         ASTM D5185(m)         2060         2494             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         3             Potassium         pp	•		ASTM D5185(m)		0		
Barium         ppm         ASTM D5185(m)         0         0             Molybdenum         ppm         ASTM D5185(m)         60         60             Manganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         1040             Calcium         ppm         ASTM D5185(m)         1070         1040             Phosphorus         ppm         ASTM D5185(m)         1270         1151             Zinc         ppm         ASTM D5185(m)         2060         2494             Sulfur         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         >25         3             Solicon         ppm         ASTM D5185(m)         >20         <1             Potassium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185(m)         60         60             Manganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         1040             Calcium         ppm         ASTM D5185(m)         1070         1040             Phosphorus         ppm         ASTM D5185(m)         1070         1040             Zinc         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         2060         2494             Solicon         ppm         ASTM D5185(m)         >25         3             Silicon         ppm         ASTM D5185(m)         >20         <1             Potassium </th <th>Boron</th> <td>ppm</td> <td>ASTM D5185(m)</td> <td>0</td> <th>2</th> <td></td> <td></td>	Boron	ppm	ASTM D5185(m)	0	2		
Manganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         1040             Phosphorus         ppm         ASTM D5185(m)         1070         1040             Zinc         ppm         ASTM D5185(m)         1150         976             Zinc         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         206         2494             Silicon         ppm         ASTM D5185(m)         >25         3             Sodium         ppm         ASTM D5185(m)         >20         <1             INFRA-RED         method	Barium		ASTM D5185(m)	0	0		
Manganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         1010         949             Calcium         ppm         ASTM D5185(m)         1070         1040             Phosphorus         ppm         ASTM D5185(m)         1070         1040             Zinc         ppm         ASTM D5185(m)         1150         976             Zinc         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         206         2494             Silicon         ppm         ASTM D5185(m)         >25         3             Sodium         ppm         ASTM D5185(m)         >20         <1             INFRA-RED         method	Molybdenum	ppm	ASTM D5185(m)	60	60		
Calcium         ppm         ASTM D5185(m)         1070         1040             Phosphorus         ppm         ASTM D5185(m)         1150         976             Zinc         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         2060         2494             Solicon         ppm         ASTM D5185(m)         2060         2494             CONTAMINANTS         method         limit/base         current         history1         history2           Solicon         ppm         ASTM D5185(m)         >20         <1             Sodium         ppm         ASTM D5185(m)         >20         <1             INFRA-RED         method         limit/base         current         history1         history2           Soot % <td< th=""><th>Manganese</th><td></td><td>ASTM D5185(m)</td><td>0</td><th>0</th><td></td><td></td></td<>	Manganese		ASTM D5185(m)	0	0		
Phosphorus         ppm         ASTM D5185(m)         1150         976             Zinc         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         2060         2494             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         3             Sodium         ppm         ASTM D5185(m)         >25         3             Potassium         ppm         ASTM D5185(m)         >20         <1             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0.1             Nitration         Abs/cm         ASTM D7624*         >20         6.4	Magnesium	ppm	ASTM D5185(m)	1010	949		
Phosphorus         ppm         ASTM D5185(m)         1150         976             Zinc         ppm         ASTM D5185(m)         1270         1151             Sulfur         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         2060         2494             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         3             Sodium         ppm         ASTM D5185(m)         >25         3             Potassium         ppm         ASTM D5185(m)         >20         <1             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0.1             Nitration         Abs/cm         ASTM D7624*         >20         6.4	Calcium		ASTM D5185(m)	1070	1040		
Sulfur         ppm         ASTM D5185(m)         2060         2494             Lithium         ppm         ASTM D5185(m)         2060         2494             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         3             Sodium         ppm         ASTM D5185(m)         >25         3             Potassium         ppm         ASTM D5185(m)         >20         <1	Phosphorus		ASTM D5185(m)	1150	976		
Lithium         ppm         ASTM D5185(m)         <1	Zinc	ppm	ASTM D5185(m)	1270	1151		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         3             Sodium         ppm         ASTM D5185(m)         >25         3             Potassium         ppm         ASTM D5185(m)         >20         <1             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0.1             Nitration         Abs/cm         ASTM D7624*         >20         6.4	Sulfur	ppm	ASTM D5185(m)	2060	2494		
Silicon         ppm         ASTM D5185(m)         >25         3             Sodium         ppm         ASTM D5185(m)         5             Potassium         ppm         ASTM D5185(m)         >20         <1	Lithium	ppm	ASTM D5185(m)		<1		
Sodium         ppm         ASTM D5185(m)         5             Potassium         ppm         ASTM D5185(m)         >20         <1             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0.1             Nitration         Abs/cm         ASTM D7624*         >20         6.4	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185(m)         >20         <1	Silicon	ppm	ASTM D5185(m)	>25	3		
INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0.1         Nitration     Abs/cm     ASTM D7624*     >20     6.4	Sodium	ppm	ASTM D5185(m)		5		
Soot %         %         ASTM D7844*         >3         0.1             Nitration         Abs/cm         ASTM D7624*         >20         6.4	Potassium	ppm	ASTM D5185(m)	>20	<1		
Nitration         Abs/cm         ASTM D7624*         >20         6.4	INFRA-RED		method	limit/base	current	history1	history2
Nitration         Abs/cm         ASTM D7624*         >20         6.4	Soot %	%	ASTM D7844*	>3	0.1		
	Sulfation						



35

30

25 4ps/cm 20

10

19 18 **Abnorma** 

17-(0.016 - Base 33:15 -

14

Mav10/24

FT-IR (Direct Trend)

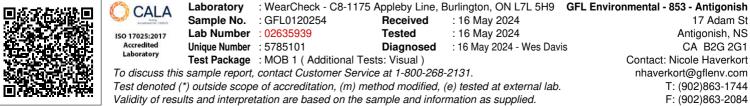
Oxidation

Nitration Sulfation

Viscosity @ 100°C

# **OIL ANALYSIS REPORT**

FLUID DEGRA	DATION	method	limit/base	current	history1	hi
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9		
VISUAL		method	limit/base	current	history1	hi
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPE	ERTIES	method	limit/base	current	history1	hi
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.4		
GRAPHS						
Iron (ppm)			1	Lead (ppm)		
250 200 Severe				80 Severe		
150 - Abnormal				60		
100 - Abnormal			шd	40 - Abnormal		
50				20		
124			1/24	0		
May10/24			May10/24	May10/24		
Z Aluminum (ppm)			2	∠ Chromium (p	pm)	
50 J				<sup>50</sup> T 8	F	
40 - Gevere				40 - Severe		
E <sup>30</sup> 20 Abnormal			mdd	30 - Abnormal		
10				20 <b>- 0</b> 10		
0				0		
May10/24			May10/24	May10/24		
			May	May		
Copper (ppm)				Silicon (ppm)		
400 Severe				80 Severe		
300 -				60 -		
200 -			bm	Aphorma		
100-				20		
54			24	0 47		
May10/24			May10/24	May10/24		
	<u>_</u>		M			
Viscosity @ 100°	L		6	Soot %		
				Severe		
D 18 Abnormal 16 Base 3 14			soot soot	Abnormal		
			×2	2.0		
12 Abnormal			n	).0		
May10/24			May10/24	May10/24		
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Contact/Location: Nicole Haverkort - GFL853

May10/24.

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