

WEAR **ATTENTION** CONTAMINATION ABNORMAL **FLUID CONDITION ATTENTION**

Machine Id 784M omponent **Diesel Engine** PETRO CANADA DURON SHP 15W40 (--- GAL)

RE(<u>IENDA</u>	

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

	_		_
		Λ.	
. 'A'		<u></u>	

An increase in the copper level is noted. All other component wear rates are normal.

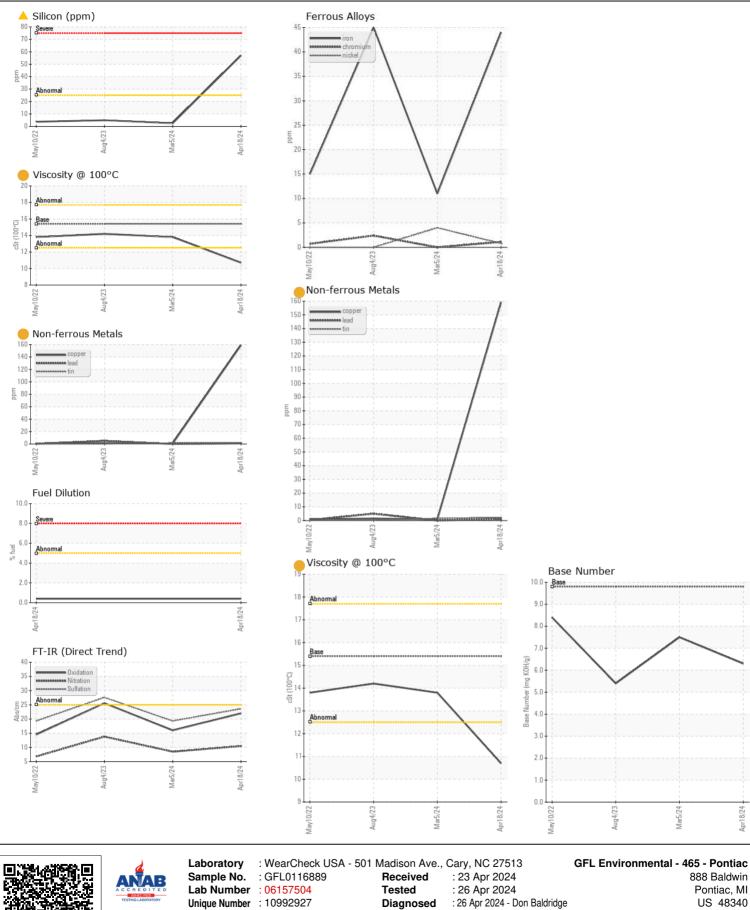
CONTAMINATION

FLUID CONDITION

Fuel content negligible. Elemental level of silicon (Si) above normal.

Sample Number Client Info GFL016889 GFL0107697 GFL001 Sample Date Client Info 18 Apr 2024 05 Mar 2024 04 Aug 2 Machine Age hrs Client Info 16037 15714 14731 Oil Age hrs Client Info 600 600 600 600 Filter Age hrs Client Info Changed N/A Changed Sample Status Client Info Changed N/A Changed Sample Status ppm ASTM 05185m >100 44 11 45 Nickel ppm ASTM 05185m >20 1 0 2 Nickel ppm ASTM 05185m >3 0 0 0 0 Aluminum ppm ASTM 05185m >30 159 <1 2 1 2 Tranium ppm ASTM 05185m >40 1 0 5 2 2 <1 Varaduium ppm ASTM 0							
Sample Date Client Info 18 Apr 2024 05 Mar 2024 04 Aug 2 Machine Age hrs Client Info 16037 15714 14731 Oil Age hrs Client Info 600 600 600 Filter Age hrs Client Info Changed N/A Changed Filter Changed Client Info Changed N/A Changed Sample Status Sample Status ABNORMAL NORMAL NORMAL Iron ppm ASTM D5185m >20 1 0 0 Nickel ppm ASTM D5185m >20 1 0 0 Silver ppm ASTM D5185m >20 5 <1 5 Lead ppm ASTM D5185m >20 5 <1 2 Tin ppm ASTM D5185m >20 5 <1 2 Vanadium ppm ASTM D5185m >20 5 <1 2 Vanadium ppm	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Dil Age hrs Client Info 16037 15714 14731 Oil Age hrs Client Info 600 600 600 600 Filter Age hrs Client Info Changed N/A Changed Oil Changed Client Info Changed N/A Changed Sample Status Client Info Changed N/A Changed Iron ppm ASTM D5185m >100 44 11 45 Chromium ppm ASTM D5185m >20 1 0 2 Nickel ppm ASTM D5185m >4 <1 4 0 Silver ppm ASTM D5185m >20 5 <1 5 Lead ppm ASTM D5185m >30 0 0 0 Vanadium ppm ASTM D5185m >21 2 <1 0 0 Veltow Metal scalar<*Visual NONE NONE NONE NONE NO	Sample Number		Client Info		GFL0116889	GFL0107697	GFL0081253
Oil Age hrs Client Info 600 600 600 600 Filter Age hrs Client Info Changed N/A Changed Filter Changed Client Info Changed N/A Changed Sample Status ABNORMAL NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >20 1 0 2 Nickel ppm ASTM D5185m >20 1 0 2 Nickel ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Vanadium ppm ASTM D5185m >30 0 0 0 Vanadium ppm ASTM D5185m >15 2 2 <1 Vanadium ppm ASTM D5185m >15 2 2 <1 Vanadium ppm ASTM D5185m >20 9 0 6 F	Sample Date		Client Info		18 Apr 2024	05 Mar 2024	04 Aug 2023
Filter Age hrs Client Info 600 600 600 Oil Changed Client Info Changed N/A Changed Filter Changed Client Info Changed N/A Changed Sample Status ASTM D5185m >100 44 11 45 Chromium ppm ASTM D5185m >20 1 0 2 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 1 2 Lead ppm ASTM D5185m >30 0 0 1 2 Tin ppm ASTM D5185m >30 0 0 0 0 White Metal scalar Yisual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0<	Machine Age	hrs	Client Info		16037	15714	14731
Oil Changed Client Info Changed N/A Changed Filter Changed Client Info Changed N/A Changed Sample Status ABNORMA NORMAL NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >100 44 11 45 Chromium ppm ASTM D5185m >20 1 0 2 Nickel ppm ASTM D5185m >20 1 0 0 Tittanium ppm ASTM D5185m >3 0 0 <1 Aluminum ppm ASTM D5185m >40 1 0 5 Lead ppm ASTM D5185m >15 2 2 <1 Vanadium ppm ASTM D5185m >4 57 2 <1 Vanadium ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0 <td< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>600</th><th>600</th><th>600</th></td<>	Oil Age	hrs	Client Info		600	600	600
Filter Changed Sample Status Client Info Changed ABNORMAL N/A Changed NORMAL NORMAL NORMAL	Filter Age	hrs	Client Info		600	600	600
Sample Status ABINORMAL NORMAL NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >100 44 11 45 Chromium ppm ASTM D5185m >20 1 0 20 Nickel ppm ASTM D5185m >3 0 0 0 Sliver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 0 1 0 5 Copper ppm ASTM D5185m >30 0 159 <1 2 Tin ppm ASTM D5185m >330 159 <1 0 0 White Metal scalar "Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 9 0 6 Fuels % ASTM D5185m >22 NEG NEG NEG Sultation Abs/tmm NAST	Oil Changed		Client Info		Changed	N/A	Changed
Iron ppm ASTM D5185m >100 44 111 45 Chromium ppm ASTM D5185m >20 1 0 2 Nickel ppm ASTM D5185m >20 1 0 0 0 Titanium ppm ASTM D5185m >3 0 0 <1 5 Lead ppm ASTM D5185m >20 5 <1 5 Lead ppm ASTM D5185m >40 1 0 5 Copper ppm ASTM D5185m >40 1 0 0 White Metal scalar "Visual NONE NONE NONE NONE Vanadium ppm ASTM D5185m >25 ▲ 57 2 5 Potassium ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0 6 Sulicon ppm ASTM D5185m	Filter Changed		Client Info		Changed	N/A	Changed
Chromium ppm ASTM D5185m >20 1 0 2 Nickel ppm ASTM D5185m >20 1 0 0 0 Silver ppm ASTM D5185m >3 0 0 <1 Aluminum ppm ASTM D5185m >3 0 0 <1 Aluminum ppm ASTM D5185m >30 5 <1 5 Lead ppm ASTM D5185m >40 1 0 5 Copper ppm ASTM D5185m >40 1 0 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0 6 Fuel % ASTM D7824 >5 0.4 <1.0 <1.0 Vater WC Method >0.5 0.5	Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >20 1 0 2 Nickel ppm ASTM D5185m >4 <1 4 0 Titanium ppm ASTM D5185m >3 0 0 <1 Aluminum ppm ASTM D5185m >3 0 0 <1 Aluminum ppm ASTM D5185m >20 5 <1 5 Lead ppm ASTM D5185m >40 1 0 5 Lead ppm ASTM D5185m >40 1 0 0 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D582 >5 0.4 <1.0 <1.0 Vater WC Method >.2 9 0 6 NEG Glycol WC Method NOE NONE NONE							
Nickel ppm ASTM D5185m >4 <1	Iron	ppm		>100	44	11	
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >3 0 0 <1 Aluminum ppm ASTM D5185m >20 5 <1 5 Lead ppm ASTM D5185m >300 1 0 5 Copper ppm ASTM D5185m >300 159 <1 2 2 1 0 0 Vanadium ppm ASTM D5185m >15 2 2 1 0 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0 6 Silicon ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D7844 >3 0.5 0.5 1.4 <tr< th=""><th>Chromium</th><th>ppm</th><th>ASTM D5185m</th><th>>20</th><th>1</th><th>0</th><th>2</th></tr<>	Chromium	ppm	ASTM D5185m	>20	1	0	2
Silver ppm ASTM D5185m >3 0 0 <1	Nickel	ppm	ASTM D5185m	>4	<1	4	0
Aluminum ppm ASTM D5185m >20 5 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >40 1 0 5 Copper ppm ASTM D5185m >330 ● 159 <1 2 Tin ppm ASTM D5185m >15 2 2 <1 Vanadium ppm ASTM D5185m >20 9 0 6 Silicon ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0 6 Soto % % *ASTM D5185m >20 9 0.5 1.4 Nitration Abs/cm< *ASTM D7415 >30 23.6 19.3 27.6 Sulfation scalar *Visual NONE NONE NONE	Silver	ppm	ASTM D5185m	>3	0	0	<1
Copper ppm ASTM D5185m >330 ● 159 <1	Aluminum	ppm	ASTM D5185m	>20	5	<1	5
Tin ppm ASTM D5185m >15 2 2 <1	Lead	ppm	ASTM D5185m	>40	1	0	5
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>330	<u> </u>	<1	2
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0 6 Glycol WC Method >0.2 NEG NEG NEG Soto % % *ASTM D7844 >3 0.5 0.5 1.4 Nitration Abs/.tmm<*ASTM D7624 >20 10.5 8.5 13.8 Sulfation scalar *Visual NONE NONE NONE	Tin	ppm	ASTM D5185m	>15	2	2	<1
Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0 6 Fuel % ASTM D3524 >5 0.4 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Soot % % *ASTM D7624 >20 10.5 8.5 13.8 Sulfation Abs/tm< *ASTM D715 >30 23.6 19.3 27.6 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NONE NONE NON Appearance scalar *Visual NORM NORML NORML NOR Cor scalar *Visual NOR NOR NOR	Vanadium	ppm	ASTM D5185m		<1	0	0
Silicon ppm ASTM D5185m >25 ▲ 57 2 5 Potassium ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0.4 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.5 1.4 Nitration Abs/cm< *ASTM D7624 >20 10.5 8.5 13.8 Sulfation Abs/tm *ASTM D715 >30 23.6 19.3 27.6 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NORM NORM NOR Appearance scalar *Visual NORM NORM NORM NOR Codor scalar <	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon ppm ASTM D5185m >25 ▲ 57 2 5 Potassium ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D5185m >20 9 0.4 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.5 1.4 Nitration Abs/cm< *ASTM D7624 >20 10.5 8.5 13.8 Sulfation Abs/tm *ASTM D7415 >30 23.6 19.3 27.6 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NOR NOR NOR Appearance scalar *Visual NOR NORML NORML NOR Codor scalar *Visual NOR NOR	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 9 0 6 Fuel % ASTM D3524 >5 0.4 <1.0							
Fuel % ASTM D3524 >5 0.4 <1.0		ppm	ASTM D5185m	>25	6 57	2	
Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method NEG NEG NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.5 1.4 Nitration Abs/.tmm *ASTM D7624 >20 10.5 8.5 13.8 Sulfation Abs/.tmm *Visual NONE NONE NONE NONE NON Debris scalar *Visual NORML NORML NORML NORM NORML NOR Appearance scalar *Visual NORML NORML NORML <th>Potassium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>20</th> <th>9</th> <th>0</th> <th></th>	Potassium	ppm	ASTM D5185m	>20	9	0	
Glycol WC Method NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.5 1.4 Nitration Abs/cm *ASTM D7624 >20 10.5 8.5 13.8 Sulfation Abs/tmm *ASTM D7624 >20 10.5 8.5 13.8 Sulfation Scalar *Visual NONE NONE NON NON Appearance scalar *Visual NORML NORML NORML NOR Odor scalar *Visual NORML NORML NOR NOR Boron ppm ASTM D5185m<	Fuel	%	ASTM D3524	>5	0.4	<1.0	<1.0
Soot % % *ASTM D7844 >3 0.5 0.5 1.4 Nitration Abs/cm *ASTM D7624 >20 10.5 8.5 13.8 Sulfation Abs/cm *ASTM D7624 >0 23.6 19.3 27.6 Silt scalar *Visual NONE NONE NONE NON Appearance scalar *Visual NORML NORML NORML NOR Odor scalar *Visual NORML NORML NOR NOR Emulsified Wa	Water		WC Method	>0.2	NEG	NEG	NEG
Nitration Abs/cm *ASTM D7624 >20 10.5 8.5 13.8 Sulfation Abs/.1mm *ASTM D7415 >30 23.6 19.3 27.6 Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NON Sand/Dirt scalar *Visual NONE NONE NONE NON Appearance scalar *Visual NORML NORML NORML NOR Odor scalar *Visual NORML NORML NORML NOR Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m 0 116 <1 3 Boron ppm ASTM D5185m 0 4 0 <1 Magnesium ppm ASTM D5185m 0 4 0 <1	Glycol		WC Method		NEG	NEG	NEG
Sulfation Abs/.1mm *ASTM D7415 >30 23.6 19.3 27.6 Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NOR Odor scalar *Visual NORML NORML NORML NOR Codor scalar *Visual NORML NORML NORML NOR Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m 0 116 <1 3 Barium ppm ASTM D5185m 0 4 0 <1 Magnesium ppm ASTM D5185m 1010 754 1051 1009	Soot %	%	*ASTM D7844	>3	0.5	0.5	1.4
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m0116<13BoronppmASTM D5185m0<100MolybdenumppmASTM D5185m0<100ManganeseppmASTM D5185m101075410511009CalciumppmASTM D5185m115080410011138ZincppmASTM D5185m127099013151373SulfurppmASTM D5185m2060265529273182OxidationAbs/.1mm*ASTM D7414>2522.016.025.6Base Number (BN)mg KOH/gASTM D28969.86.37.55.4	Nitration	Abs/cm	*ASTM D7624	>20	10.5	8.5	13.8
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNORNORCdorscalar*VisualNORMLNORMLNORMLNORNOREmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0116<13BariumppmASTM D5185m0<100MolybdenumppmASTM D5185m601075673ManganeseppmASTM D5185m101075410511009CalciumppmASTM D5185m115080410011138ZincppmASTM D5185m127099013151373SulfurppmASTM D5185m2060265529273182OxidationAbs/.1mm*ASTM D7414>2522.016.025.6Base Number (BN)mg KOH/gASTM D28969.86.37.55.4	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	19.3	27.6
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0116<13BoronppmASTM D5185m0116<13BariumppmASTM D5185m0<1000MolybdenumppmASTM D5185m040<1MagnesiumppmASTM D5185m101075410511009CalciumppmASTM D5185m115080410011138ZincppmASTM D5185m127099013151373SulfurppmASTM D5185m2060265529273182OxidationAbs/.1mm*ASTM D7414>2522.016.025.6Base Number (BN)mg KOH/gASTM D28969.86.37.55.4	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0116<13BoronppmASTM D5185m0116<13BariumppmASTM D5185m0<1000MolybdenumppmASTM D5185m601075673ManganeseppmASTM D5185m101075410511009CalciumppmASTM D5185m115080410011138PhosphorusppmASTM D5185m127099013151373SulfurppmASTM D5185m2060265529273182OxidationAbs/.1mm*ASTM D28969.86.37.55.4	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NOR Emulsified Water scalar *Visual >0.2 NEG NEG NEG NEG Sodium ppm ASTM D5185m 0 116 <1 3 <th>Sand/Dirt</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th>NONE</th> <th>NONE</th>	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m 3 2 18 Boron ppm ASTM D5185m 0 116 <1 3 Barium ppm ASTM D5185m 0 <1 0 0 Molybdenum ppm ASTM D5185m 0 <1 0 0 Manganese ppm ASTM D5185m 0 4 0 <1 Magnesium ppm ASTM D5185m 1010 754 1051 1009 Calcium ppm ASTM D5185m 1070 1338 1180 1285 Phosphorus ppm ASTM D5185m 1270 990 1315 1373 Sulfur ppm ASTM D5185m 2060 2655 2927 3182 Oxidation Abs/.1mm *ASTM D2896 9.8 6.3 7.5 4	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 3 2 18 Boron ppm ASTM D5185m 0 116 <1 3 Barium ppm ASTM D5185m 0 116 <1 3 Barium ppm ASTM D5185m 0 <1 0 0 Molybdenum ppm ASTM D5185m 60 107 56 73 Manganese ppm ASTM D5185m 0 4 0 <1 Magnesium ppm ASTM D5185m 1010 754 1051 1009 Calcium ppm ASTM D5185m 1070 1338 1180 1285 Phosphorus ppm ASTM D5185m 1270 990 1315 1373 Sulfur ppm ASTM D5185m 2060 2655 2927 3182 Oxidation Abs/.1mm<*ASTM D7414 >25 22.0 16.0 25.6 Base Number (BN) mgKOH/g ASTM D2896 9.8 <td< th=""><th>Odor</th><th>scalar</th><th></th><th>NORML</th><th>NORML</th><th>NORML</th><th>NORML</th></td<>	Odor	scalar		NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 0 116 <1	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Boron ppm ASTM D5185m 0 116 <1	0				•	0	4.0
Barium ppm ASTM D5185m 0 <1				0	440	4	
Molybdenum ppm ASTM D5185m 60 107 56 73 Manganese ppm ASTM D5185m 0 4 0 <1 Magnesium ppm ASTM D5185m 1010 754 1051 1009 Calcium ppm ASTM D5185m 1070 1338 1180 1285 Phosphorus ppm ASTM D5185m 1150 804 1001 1138 Zinc ppm ASTM D5185m 1270 990 1315 1373 Sulfur ppm ASTM D5185m 2060 2655 2927 3182 Oxidation Abs/.1mm *ASTM D7414 >25 22.0 16.0 25.6 Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.5 5.4							
Manganese ppm ASTM D5185m 0 4 0 <1							
Magnesium ppm ASTM D5185m 1010 754 1051 1009 Calcium ppm ASTM D5185m 1070 1338 1180 1285 Phosphorus ppm ASTM D5185m 1150 804 1001 1138 Zinc ppm ASTM D5185m 1270 990 1315 1373 Sulfur ppm ASTM D5185m 2060 2655 2927 3182 Oxidation Abs/.1mm *ASTM D7414 >25 22.0 16.0 25.6 Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.5 5.4							
Calcium ppm ASTM D5185m 1070 1338 1180 1285 Phosphorus ppm ASTM D5185m 1150 804 1001 1138 Zinc ppm ASTM D5185m 1270 990 1315 1373 Sulfur ppm ASTM D5185m 2060 2655 2927 3182 Oxidation Abs/.1mm *ASTM D7414 >25 22.0 16.0 25.6 Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.5 5.4	•						
Phosphorus ppm ASTM D5185m 1150 804 1001 1138 Zinc ppm ASTM D5185m 1270 990 1315 1373 Sulfur ppm ASTM D5185m 2060 2655 2927 3182 Oxidation Abs/.1mm *ASTM D7414 >25 22.0 16.0 25.6 Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.5 5.4	0						
Zinc ppm ASTM D5185m 1270 990 1315 1373 Sulfur ppm ASTM D5185m 2060 2655 2927 3182 Oxidation Abs/.1mm *ASTM D7414 >25 22.0 16.0 25.6 Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.5 5.4							1285
Sulfur ppm ASTM D5185m 2060 2655 2927 3182 Oxidation Abs/.1mm *ASTM D7414 >25 22.0 16.0 25.6 Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.5 5.4	-						1138
Oxidation Abs/.1mm *ASTM D7414 >25 22.0 16.0 25.6 Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.5 5.4							1373
Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.5 5.4							3182
							25.6
Visc @ 100°C cSt ASTM D445 15.4 (e 10.7 / 13.8 14.2							
	Visc @ 100°C	cSt	ASTM D445	15.4	10.7	13.8	14.2

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



 Certificate L2367
 Test Package
 : FLEET (Additional Tests: FuelDilution, PercentFuel)
 CC

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 rick
 rick

 * - 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)

Submitted By: Ricky Matthews