

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## Area [4642] 06-029-CE Component

Fluid Fluid PETRO CANADA LUMINOL TRI (--- GAL)

## DIAGNOSIS

Recommendation

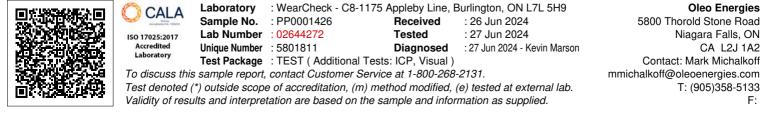
This is a baseline read-out on the submitted sample.

Sample Number         Client Info         PP0001426             Sample Date         Client Info         0             Machine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         NCMMAL             Sample Status         Client Info         NCMMAL             CONTAMINATION         method         Imirbase         current         history2            Wear         WC Method         Imirbase         current         History1         history2           Iron         ppm         ASTM D5155m              Wear         wC Method         Imirbase         current         History1         history2           Iron         ppm         ASTM D5155m               Titanium         ppm         ASTM D5155m               Auminum         ppm         ASTM D5155m         0              Auminum         ppm         ASTM D5155m	SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         0             Sample Status         Client Info         NA             Sample Status         Client Info         NA             CONTAMINATION         method         Imil/base         current         history1         history2           Water         WC Method         NEG              WEAR METALS         method         Imil/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         <1	Sample Number		Client Info		PP0001426		
Oil Age         hrs         Client Info         0             Oil Changed         Client Info         N/A             Sample Status         Client Info         N/A             CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         NEG             CONTAMINATION         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05186m         0              Nickel         ppm         ASTM 05186m         0              Aluminum         ppm         ASTM 05186m         0              Aduminum         ppm         ASTM 05186m         0              Aduminum         ppm         ASTM 05186m         0              Aduminum         ppm         ASTM 05186m         0              Adminum         ppm	Sample Date		Client Info		25 Jun 2024		
Oil Changed         Client Info         N/A             Sample Status         Imit/Date         Current         History1         History2           Water         WC Method         NEG             WEAR METALS         method         limit/base         current         History1         History2           Work         ppm         ASTM D5185m         0             WEAR METALS         method         limit/base         current         History1         History2           Iron         ppm         ASTM D5185m         0              Mickel         ppm         ASTM D5185m         0         0             Aluminum         ppm         ASTM D5185m         0         0             Lead         ppm         ASTM D5185m         0         0             Antimony         ppm         ASTM D5185m         0         0             Copper         ppm         ASTM D5185m         0         0             Method         Imit/base         <	Machine Age	hrs	Client Info		0		
Sample Status         NORMAL             CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM05185m         0             Nickel         ppm         ASTM05185m         0             Nickel         ppm         ASTM05185m         0             Silver         ppm         ASTM05185m         0             Lead         ppm         ASTM05185m         0             Antimony         ppm         ASTM05185m         0             Antimony         ppm         ASTM05185m         0             Antimony         ppm         ASTM05185m         0             AstM05185m         0              Cadmium         ppm         ASTM05185m <td>Oil Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <th>0</th> <td></td> <td></td>	Oil Age	hrs	Client Info		0		
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185(m)         0             Nickel         ppm         ASTM 05185(m)         0             Nickel         ppm         ASTM 05185(m)         0             Silver         ppm         ASTM 05185(m)         0             Lead         ppm         ASTM 05185(m)         0             Autininum         ppm         ASTM 05185(m)         0             Copper         ppm         ASTM 05185(m)         0             Antimony         ppm         ASTM 05185(m)         0             Cadmium         ppm         ASTM 05185(m)         0             ADDITIVES         method         limit/base         current         history1	Oil Changed		Client Info		N/A		
Water         WC Method         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         0             Chromium         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         0             Lead         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0         0	Sample Status				NORMAL		
WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         0             Othromium         ppm         ASTM D5185(m)         <1             Nickel         ppm         ASTM D5185(m)         <1             Silver         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         pm         ASTM D5185(m)         0             Cadmium         pm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Cadmium         pm         ASTM D5185(m)         0 <t< th=""><th>CONTAMINATION</th><th>١</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	CONTAMINATION	١	method	limit/base	current	history1	history2
Iron         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)         <1             Nickel         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         0             Lead         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             Boron         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         0 <tr< th=""><th>Water</th><th></th><th>WC Method</th><th></th><th>NEG</th><th></th><th></th></tr<>	Water		WC Method		NEG		
Chromium         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185(m)         <1             Titanium         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         0             Lead         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Tin         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             Boron         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         0	Iron	ppm	ASTM D5185(m)		0		
Titanium         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         0             Lead         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0              Magnese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m	Chromium	ppm	ASTM D5185(m)		0		
Silver         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         0             Lead         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Cadmium         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             Galcium         ppm         ASTM D5185(m)         0         0        Calcium         ppm         ASTM	Nickel	ppm	ASTM D5185(m)		<1		
Aluminum         ppm         ASTM D5185(m)         <1             Lead         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDTIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         0             Maganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         0	Titanium	ppm	ASTM D5185(m)		0		
Lead         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Tin         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0         0             Boron         ppm         ASTM D5185(m)         0         0             Maganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         0         0             Calcium         ppm         ASTM D5185(m)         0              Sulfur         ppm	Silver	ppm	ASTM D5185(m)		0		
Copper         ppm         ASTM D5185(m)         0             Tin         ppm         ASTM D5185(m)         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             Molybdenum         ppm         ASTM D5185(m)         0         0            Manganese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         0         0             Calcium         ppm         ASTM D5185(m)         0         0             Calcium         ppm         ASTM D5185(m)         0              Sulfur         ppm	Aluminum	ppm	ASTM D5185(m)		<1		
Tin         ppm         ASTM D5185(m)         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             Malybdenum         ppm         ASTM D5185(m)         0         0             Magnaese         ppm         ASTM D5185(m)         0         0             Magnaesium         ppm         ASTM D5185(m)         0         0             Sulfur         ppm         ASTM D5185(m)         0              Sulfur         ppm         ASTM D5185(m)         0	Lead	ppm	ASTM D5185(m)		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         imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0             Magnaese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         0         0             Calcium         ppm         ASTM D5185(m)         0         0             Zinc         ppm         ASTM D5185(m)         0         0             Sulfur         ppm         ASTM D5185(m)         0             Sodium         ppm         ASTM D5185(m)         >5         0            Sulfur <td< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185(m)</td><td></td><th>0</th><td></td><td></td></td<>	Copper	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         <1	Tin	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         <1             Barium         ppm         ASTM D5185(m)         0         0             Malybdenum         ppm         ASTM D5185(m)         0         0             Magnese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         0         0             Calcium         ppm         ASTM D5185(m)         0         0             Visure         ppm         ASTM D5185(m)         0              Calcium         ppm         ASTM D5185(m)         0              Sulfur         ppm         ASTM D5185(m)         0         -	Antimony	ppm	ASTM D5185(m)		0		
CadmiumppmASTM D5185(m)0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185(m)0<1	Vanadium	ppm	ASTM D5185(m)		0		
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185(m)0<1	Beryllium	ppm	ASTM D5185(m)		0		
Boron         ppm         ASTM D5185(m)         0         <1             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)         0         0             Magnesium         ppm         ASTM D5185(m)         0         0             Calcium         ppm         ASTM D5185(m)         0         0             Phosphorus         ppm         ASTM D5185(m)         0              Sulfur         ppm         ASTM D5185(m)         0              Sulfur         ppm         ASTM D5185(m)         >5         0             Sodium         ppm         ASTM D5185(m)         >20         <1	Cadmium	ppm	ASTM D5185(m)		0		
BariumppmASTM D5185(m)00MolybdenumppmASTM D5185(m)00ManganeseppmASTM D5185(m)00MagnesiumppmASTM D5185(m)00CalciumppmASTM D5185(m)00PhosphorusppmASTM D5185(m)00SulfurppmASTM D5185(m)100LithiumppmASTM D5185(m)100SoliconppmASTM D5185(m)0SodiumppmASTM D5185(m)>0PotassiumppmASTM D5185(m)>20<1VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NONENONEContractvisual*NONENONEYellow<	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185(m)00ManganeseppmASTM D5185(m)00MagnesiumppmASTM D5185(m)00CalciumppmASTM D5185(m)00PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0SulfurppmASTM D5185(m)0LithiumppmASTM D5185(m)100SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)0SodiumppmASTM D5185(m)>50SodiumppmASTM D5185(m)>20VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONEYellow MetalscalarVisual*NONENONESiltscalarVisual*NONENONESiltscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML <t< td=""><td></td><td></td><td></td><td></td><th></th><td></td><td></td></t<>							
ManganeseppmASTM D5185(m)00MagnesiumppmASTM D5185(m)00CalciumppmASTM D5185(m)00PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0SulfurppmASTM D5185(m)0SulfurppmASTM D5185(m)100LithiumppmASTM D5185(m)SoliconppmASTM D5185(m)0SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>20VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONEYellow MetalscalarVisual*NONENONESiltscalarVisual*NONENONESiltscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron	ppm	ASTM D5185(m)	0	<1		
MagnesiumppmASTM D5185(m)00CalciumppmASTM D5185(m)00PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0<1			. /				
CalciumppmASTM D5185(m)000PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0<1	Barium	ppm	ASTM D5185(m)	0	0		
PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0<1	Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0	0 0		
ZincppmASTM D5185(m)0<1SulfurppmASTM D5185(m)100LithiumppmASTM D5185(m)100LithiumppmASTM D5185(m)<1	Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0	0 0 0		
SulfurppmASTM D5185(m)100LithiumppmASTM D5185(m)<	Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0	0 0 0 0	  	 
LithiumppmASTM D5185(m)<1CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)0SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>20<1	Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0	0 0 0 0 0		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)0SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>20<1	Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0	0 0 0 0 0 0	  	
SiliconppmASTM D5185(m)0SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>20<1	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0	0 0 0 0 0 0 <1	  	
SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>20<1VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0	0 0 0 0 0 0 <1 0	    	
PotassiumppmASTM D5185(m)>20<1VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0 10	0 0 0 0 0 0 <1 0 <1 0 <1		
VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLnormal	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0 10	0 0 0 0 0 0 <1 0 <1 0 <1	      history1	      history2
White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) <b>method</b> ASTM D5185(m)	0 0 0 0 0 0 0 10 Iimit/base	0 0 0 0 0 0 0 <1 0 <1 0 <1 0 current 0	     history1	      history2
Yellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0 10 10 <b>limit/base</b>	0 0 0 0 0 0 0 0 <1 0 <1 0 <1 0 current 0 0	      history1	      history2
PrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0 0 0 10 10 <b>imit/base</b> >5 >20	0 0 0 0 0 0 <1 0 <1 0 <1 0 0 <1 0 0 1 1	      history1  	       history2
SiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0 10 10 10 10 10 10 10 10 20 10 10 20 20 10 10 20 20 10 10 20 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	0 0 0 0 0 0 <1 0 <1 0 current 0 0 <1 current	     history1   history1	     history2   history2
DebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0 0 0 10 10 10 10 10 10 5 5 >20 11 11/base NONE	0 0 0 0 0 0 2 1 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 0 2 1 0 0 0 2 1 0 0 0 0	     history1   history1	     history2  history2  history2
Sand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 <1 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 0 <1 0 0 0 <1 0 0 0 0	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li>history1</li> <li></li> </ul>	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li>history2</li> <li></li> <li></li></ul>
Appearance scalar Visual* NORML NORML	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Visual*	0 0 0 0 0 0 0 0 0 0 0 10 0 10 10 10 10 1	0 0 0 0 0 0 2 1 0 3 3 4 1 0 0 3 3 4 1 0 0 3 4 1 0 0 4 1 0 0 4 1 0 0 4 1 0 0 4 1 0 0 4 1 0 0 1 1 0 0 0 1 1 0 0 0 0	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li></li> <li>history1</li> <li></li> </ul>	       history2   history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL Vhite Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Visual* Visual* Visual*	0 0 0 0 0 0 0 0 0 10 10 10 10 10 10 10 1	0 0 0 0 0 0 2 1 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 0 2 1 0 0 0 2 1 0 0 0 0	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li></li></ul>	       history2  history2  history2
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	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Visual* Visual* Visual* Visual* Visual*	0 0 0 0 0 0 0 0 0 0 10 10 10 10 10 10 10	0 0 0 0 0 0 2 1 0 2 1 0 2 1 0 2 1 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 2 1 0 0 0 0	Image: Section of the section of	i



## **OIL ANALYSIS REPORT**

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
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