

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## Area [4664] 06-037-CE Component Fluid

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

## DIAGNOSIS

Recommendation

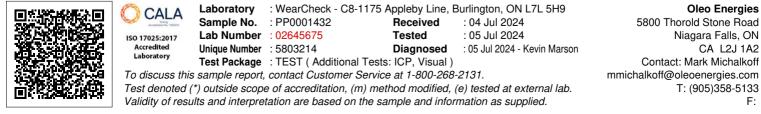
This is a baseline read-out on the submitted sample.

Sample Number         Client Info         PP0001432             Sample Date         Client Info         03 Jul 2024             Oil Age         hrs         Client Info         0             Oil Anged         hrs         Client Info         0             Oil Changed         Client Info         N/A             Sample Status         -         method         Imit/base         nor            CONTAMINATION         method         Imit/base         current         history1         history2           Vater         WC Method         NEG              Wetr         WC Method         NEG              Nickel         ppm         ASTM 05150m         0             Silver         ppm         ASTM 05150m         0             Autiminum         ppm         ASTM 05150m         0             Autiminum         ppm         ASTM 05150m         0             Aut	SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Sample Status         Image         NIA             CONTAMINATION         method         Imit/base         current         history1         history2           Water         WC Method         NEG              WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM 05185m         0             Nickel         ppm         ASTM 05185m         0             Aluminum         ppm         ASTM 05185m         0             Copper         ppm         ASTM 05185m         0             Animony         ppm         ASTM 05185m         0             Animony         ppm         ASTM 05185m         0             <	Sample Number		Client Info		PP0001432		
Oil Age Oil Age Oil Changed         Ins         Client Info         N/A             Sample Status         Imit base         current         NoRMAL             CONTAMINATION         method         Imit/base         current         history1         history2           Water         WC Method         NEG             WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM 05185m         -<1             Chromium         ppm         ASTM 05185m         -<1             Silver         ppm         ASTM 05185m         0             Aluminum         ppm         ASTM 05185m         0             Aluminum         ppm         ASTM 05185m         0             Autimony         ppm         ASTM 05185m         0             Tin         ppm         ASTM 05185m         0             Autimony         ppm         ASTM 05185m         0	Sample Date		Client Info		03 Jul 2024		
Oil Changed         Client Info         N/A             Sample Status         Imit/base         current         History1         History2           Water         WC Method         NEG             WEAR METALS         method         limit/base         current         History1         History2           Water         WC Method         NEG             WEAR METALS         method         limit/base         current         History1         history2           Iron         ppm         ASTM0516/m         0             Kear Metrals         ppm         ASTM0516/m         0             Silver         ppm         ASTM0516/m         0             Lead         ppm         ASTM0516/m         0             Antimony         ppm         ASTM0516/m         0             Antimony         ppm         ASTM0516/m         0             Copper         ppm         ASTM0516/m         0             AstM0516/m         0	Machine Age	hrs	Client Info		0		
Sample Status         NORMAL             CONTAMINATION         method         Imit/base         current         history1         history2           Water         WC Method         NEG             WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D585(m)         0             Nickel         ppm         ASTM D585(m)         0             Silver         ppm         ASTM D585(m)         0             Auminum         ppm         ASTM D585(m)         0             Copper         ppm         ASTM D585(m)         0             Vanadium         ppm         ASTM D585(m)         0             Vanadium         ppm         ASTM D585(m)         0             Cadmium         ppm         ASTM D585(m)         0             Copper         ppm         ASTM D585(m)         0             Copper	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         ASIN/D5185(m)         0             Nickel         ppm         ASIN/D5185(m)         0             Nickel         ppm         ASIN/D5185(m)         0             Aluminum         ppm         ASIN/D5185(m)         0             Aluminum         ppm         ASIN/D5185(m)         0             Aluminum         ppm         ASIN/D5185(m)         0             Copper         ppm         ASIN/D5185(m)         0             Animony         ppm         ASIN/D5185(m)         0             Asin/D5185(m)         0              Cadmium         ppm         ASIN/D5185(m)         0	Oil Changed		Client Info		N/A		
Water         WC Method         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5168(m)         0             Nickel         ppm         ASTM D5168(m)         0             Nickel         ppm         ASTM D5168(m)         0             Aluminum         ppm         ASTM D5168(m)         0             Aluminum         ppm         ASTM D5168(m)         0             Lead         ppm         ASTM D5168(m)         0             Antimony         ppm         ASTM D5168(m)         0             Antimony         ppm         ASTM D5168(m)         0             Cadmium         ppm         ASTM D5168(m)         0             Beryllium         ppm         ASTM D5168(m)         0             Cadmium         ppm         ASTM D5168(m)         0 <t< th=""><th>Sample Status</th><th></th><th></th><th></th><th>NORMAL</th><th></th><th></th></t<>	Sample Status				NORMAL		
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)         <1             Silver         ppm         ASTM 05185(m)         <1             Lead         ppm         ASTM 05185(m)         0             Lead         ppm         ASTM 05185(m)         0             Tin         ppm         ASTM 05185(m)         0             Antimony         ppm         ASTM 05185(m)         0             Antimony         ppm         ASTM 05185(m)         0             Cadmium         ppm         ASTM 05185(m)         0             Cadmium         ppm         ASTM 05185(m)         0             Boron         ppm         ASTM 05185(m)         0	CONTAMINATION	١	method	limit/base	current	history1	history2
Iron         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)          0             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             Cadmium         ppm         ASTM D5185(m)         0             ADITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)	Water		WC Method		NEG		
Chromium         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)         <1             Silver         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         0             Lead         ppm         ASTM D5185(m)         0             Lead         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Addium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0              Magnaese         ppm         ASTM D5185(m)         0	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             Tin         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDTIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0              Magnese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         0	Iron	ppm	ASTM D5185(m)		0		
Titanium         ppm         ASTM 05185(m)         0             Silver         ppm         ASTM 05185(m)         0             Aluminum         ppm         ASTM 05185(m)         0             Lead         ppm         ASTM 05185(m)         0             Copper         ppm         ASTM 05185(m)         0             Antimony         ppm         ASTM 05185(m)         0             Antimony         ppm         ASTM 05185(m)         0             Beryllium         ppm         ASTM 05185(m)         0             ADDITVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM 05185(m)         0              Molybdenum         ppm         ASTM 05185(m)         0         0             Magnesium         ppm         ASTM 05185(m)         0         0             Phosphorus         ppm         ASTM 051	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             Antimony         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Acadmium         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             Malganese         ppm         ASTM D5185(m)         0         0             Calcium         ppm         ASTM D5185(m)<	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             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         0             Malganese         ppm         ASTM D5185(m)         0         0             Magnaese         ppm         ASTM D5185(m)         0         0             Zinc         ppm         ASTM D5185(m) </td <td>Titanium</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td></td> <th>0</th> <td></td> <td></td>	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             Boron         ppm         ASTM D5185(m)         0         0             Maganese         ppm         ASTM D5185(m)         0         0             Magnaese         ppm         ASTM D5185(m)         0         0             Magnaese         ppm         ASTM D5185(m)         0         0             Sulfur         ppm         ASTM D5185(m) <td>Silver</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td></td> <th>0</th> <td></td> <td></td>	Silver	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             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         0             Magnanese         ppm         ASTM D5185(m)         0         0             Magnasim         ppm         ASTM D5185(m)         0         0             Calcium         ppm <td< td=""><td>Aluminum</td><td></td><td>ASTM D5185(m)</td><td></td><th>&lt;1</th><td></td><td></td></td<>	Aluminum		ASTM D5185(m)		<1		
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             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0              Magnesium         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	Lead		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             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         nethod         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             Calcium         ppm         ASTM D5185(m)         0         0             Sulfur         ppm         ASTM D5185(m)         0              Sulfur         ppm         ASTM D5185(m)         0	Copper		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		
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             Barium         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             Sulfur         ppm         ASTM D5185(m)         0             Sulfur         ppm         ASTM D5185(m)         0 <td>Antimony</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td></td> <th>0</th> <td></td> <td></td>	Antimony	ppm	ASTM D5185(m)		0		
CadmiumppmASTM D5185(m)0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185(m)0<1	Vanadium		ASTM D5185(m)		0		
CadmiumppmASTM D5(85(m)0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5(85(m)0<1	Beryllium	ppm	ASTM D5185(m)		0		
Boron         ppm         ASTM D5185(m)         0         <1	Cadmium	ppm	ASTM D5185(m)		0		
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             Calcium         ppm         ASTM D5185(m)         0         0             Phosphorus         ppm         ASTM D5185(m)         0         0             Zinc         ppm         ASTM D5185(m)         0              Sulfur         ppm         ASTM D5185(m)         0              Lithium         ppm         ASTM D5185(m)         0              Solicon         ppm         ASTM D5185(m)         >5         0             Sodium         ppm         ASTM D5185(m)         >20         0             VISUAL         method <td< th=""><th>ADDITIVES</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>historv2</th></td<>	ADDITIVES		method	limit/base	current	history1	historv2
MolybdenumppmASTM D5185(m)00ManganeseppmASTM D5185(m)00MagnesiumppmASTM D5185(m)00CalciumppmASTM D5185(m)00PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0<1SulfurppmASTM D5185(m)100LithiumppmASTM D5185(m)100SoliconppmASTM D5185(m)<11SodiumppmASTM D5185(m)50PotassiumppmASTM D5185(m)>200VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONEYellow MetalscalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML			mounou	initia baoo	ourront	Thotory	
Manganese         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         0             Zinc         ppm         ASTM D5185(m)         0         <1		ppm					· · · · · ·
MagnesiumppmASTM D5185(m)00CalciumppmASTM D5185(m)00PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0<1	Boron		ASTM D5185(m)	0	<1		
CalciumppmASTM D5185(m)00PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0<1	Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	0	<1 0		
PhosphorusppmASTM D5185(m)00ZincppmASTM D5185(m)0<1	Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0	<1 0 0		
ZincppmASTM D5185(m)0<1SulfurppmASTM D5185(m)100LithiumppmASTM D5185(m)<1	Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0	<1 0 0 0		
SulfurppmASTM D5185(m)100LithiumppmASTM D5185(m)100CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)0SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>200VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0	<1 0 0 0 0		
LithiumppmASTM D5185(m)<1CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)0SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>200VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron Barium Molybdenum Manganese Magnesium Calcium	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	<1 0 0 0 0 0	  	  
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)0SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>200VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONESolitscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron 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) ASTM D5185(m)	0 0 0 0 0 0 0	<1 0 0 0 0 0 0 0	   	
SiliconppmASTM D5185(m)0SodiumppmASTM D5185(m) >50PotassiumppmASTM D5185(m) >200VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron 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	<1 0 0 0 0 0 0 0 <1		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Boron 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) ASTM D5185(m)	0 0 0 0 0 0 0 0	<1 0 0 0 0 0 0 0 0 2 1 0		
SodiumppmASTM D5185(m)>50PotassiumppmASTM D5185(m)>200VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron 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 0 10	<1 0 0 0 0 0 <1 0 <1		
PotassiumppmASTM D5185(m)>200VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron 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) ASTM D5185(m)	0 0 0 0 0 0 0 0 10	<1 0 0 0 0 0 0 0 <1 0 <1 0 <1		
White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron 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 0 10 10 limit/base	<1 0 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	Boron 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)	0 0 0 0 0 0 0 0 0 10 10 <b>limit/base</b>	<1 0 0 0 0 0 0 <1 0 <1 0 <1 0 current 0 0	      history1	      history2
PrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron 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>limit/base</b> >5 >20	<1 0 0 0 0 0 0 0 <1 0 <1 0 <1 0 current 0 0 0	       history1  	      history2  
SiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron 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 0 0 10 10 <b>imit/base</b> <b>imit/base</b>	<1 0 0 0 0 0 0 <1 0 <1 0 current 0 0 0 0 0 0 0 0 0 0 0 0 0 0		      history2   history2
Debris         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML	Boron 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 0 0 0 0 0 0 0 0 0 0	<1 0 0 0 0 0 3 0 4 1 0 4 1 0 4 1 0 0 0 0 0 0 0 0 0 0 0	      history1  history1  history1	      history2  history2
Sand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	Boron 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	<1 0 0 0 0 0 0 <1 0 <1 0 <1 0 0 0 0 0 0	       history1   history1  history1	       history2  history2
Appearance scalar Visual* NORML NORML	Boron 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) Cusual* Visual*	0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 10 10 10	<1 0 0 0 0 0 0 <1 0 <1 0 <1 0 0 <1 0 0 0 0	history1 history1 history1	       history2  history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Cusual* Visual* Visual*	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 0 0 0 0 0 0 <1 0 <1 0 <1 0 0 0 0 0 0		
Odor scalar Visual* NORML NORML ation: Mark Michalkoff OLENIA	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Cusual ASTM D5185(m) ASTM D518	0 0 0 0 0 0 0 0 0 0 0 0 10 0 10 10 10 10	<1 0 0 0 0 0 0 <1 0 <1 0 <1 0 0 0 0 0 0	history1 history1	
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	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 0 0 0 0 0 0 0 0 0	<1 0 0 0 0 0 0 4 1 0 <1 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		



## **OIL ANALYSIS REPORT**

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



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