

## **OIL ANALYSIS REPORT**



Machine Id CRN032 Component

Hydraulic System Fluid PETRO CANADA HYDREX AW 68 (--- GAL)

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: New purchase PM-4 changed fluid and filters )

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

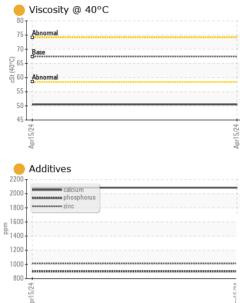
#### Fluid Condition

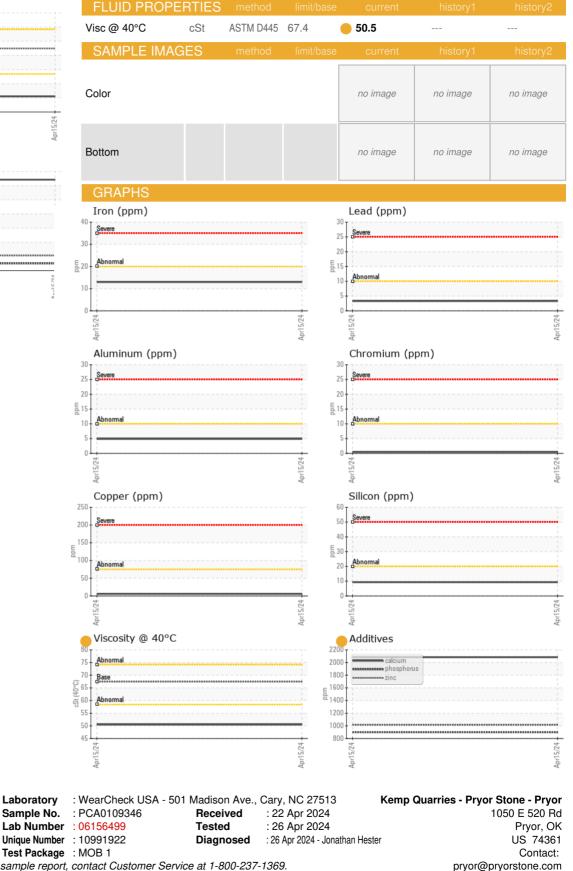
The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Water   WC Method   >0.1   NEG       WEAR METALS   method   limit/base   current   history1   history2     Iron   ppm   ASTM D5165m   >10   <1       Nickel   ppm   ASTM D5165m   >10   0       Nickel   ppm   ASTM D5165m   0        Aluminum   ppm   ASTM D5165m   >10   5       Aluminum   ppm   ASTM D5165m   >10   3       Aduminum   ppm   ASTM D5165m   >10   0       Copper   ppm   ASTM D5165m   0   0       Vanadium   ppm   ASTM D5165m   0   12       Addminum   ppm   ASTM D5165m   0   2       Madanese   ppm   ASTM D5165m   0   31 <t< th=""><th>SAMPLE INFOR</th><th>MATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Date   Client Info   15 Apr 2024       Machine Age   hrs   Client Info   3880       Oil Age   hrs   Client Info   3880       Oil Changed   Client Info   Changed       Sample Status   Imitbase   Current   history1   history2     Water   WC Method   >0.1   NEG       WEAR METALS   method   imitbase   current   history1   history2     Iron   ppm   ASTM 05185m   >10   -1       Otcomium   ppm   ASTM 05185m   >10   0       Aluminum   ppm   ASTM 05185m   >10   3       Aluminum   ppm   ASTM 05185m   >10   0       Aluminum   ppm   ASTM 05185m   0   0       Aluminum   ppm <td< td=""><td>Sample Number</td><td></td><td>Client Info</td><td></td><td>PCA0109346</td><td></td><td></td></td<>	Sample Number		Client Info		PCA0109346		
Machine Age   hrs   Client Info   3980       Oil Age   hrs   Client Info   3980       Sample Status   Client Info   ATTENTION       Sample Status   Client Info   ATTENTION       CONTAMINATION   method   Initibaze   current   history2      Wear   WC Method   >0.1   NEG       WEAR METALS   method   Initibaze   current   history2      Nickel   ppm   ASTM 05165m   >10   0       Silver   ppm   ASTM 05165m   >10   5       Copper   ppm   ASTM 05165m   >10   3       Adminum   ppm   ASTM 05165m   >10   3       Adatimum   ppm   ASTM 05165m   >10   0       Adatimum   ppm <td></td> <td></td> <td>Client Info</td> <td></td> <td>15 Apr 2024</td> <td></td> <td></td>			Client Info		15 Apr 2024		
Oil Age   hrs   Client Info   3980       Oil Changed   Client Info   Changed        Sample Status   Method   Init/base   current   history1   history2     Water   WC Method   >0.1   NEG       WEAR METALS   method   Init/base   current   history1   history2     Iron   ppm   ASTM 05185m   >10   <1	Machine Age	hrs	Client Info		-		
Sample Status   ATTENTION       CONTAMINATION   method   imit/base   current   history1   history2     Water   WC Method   >0.1   NEG       WEAR METALS   method   imit/base   current   history1   history2     Iron   ppm   ASTM D5185n   >10   -1       Titranium   ppm   ASTM D5185n   >10   0       Silver   ppm   ASTM D5185n   10   0       Itanium   ppm   ASTM D5185n   >10   5       Copper   ppm   ASTM D5185n   >10   0       Vanadium   ppm   ASTM D5185n   0   62       ADDITVES   method   imit/base   current   history1   history2     Boro   ppm   ASTM D5185n   0   2 <t< td=""><td>•</td><td>hrs</td><td>Client Info</td><td></td><td>3980</td><td></td><td></td></t<>	•	hrs	Client Info		3980		
Sample Status   ATTENTION       CONTAMINATION   method   imit/base   current   history1   history2     Water   WC Method   >0.1   NEG       WEAR METALS   method   imit/base   current   history1   history2     Iron   ppm   ASTM D5185n   >10   -1       Titranium   ppm   ASTM D5185n   >10   0       Silver   ppm   ASTM D5185n   10   0       Itanium   ppm   ASTM D5185n   >10   5       Copper   ppm   ASTM D5185n   >10   0       Vanadium   ppm   ASTM D5185n   0   62       ADDITVES   method   imit/base   current   history1   history2     Boro   ppm   ASTM D5185n   0   2 <t< td=""><td>Oil Changed</td><td></td><td>Client Info</td><td></td><td>Changed</td><td></td><td></td></t<>	Oil Changed		Client Info		Changed		
Water   WC Method   >0.1   NEG       WEAR METALS   method   limit/base   current   history1   history2     Iron   ppm   ASTM D5185n   >20   13       Chromium   ppm   ASTM D5185n   >10   0       Nickel   ppm   ASTM D5185n   >10   0       Aluminum   ppm   ASTM D5185n   >10   3       Aluminum   ppm   ASTM D5185n   >10   3       Aluminum   ppm   ASTM D5185n   >10   0       Aluminum   ppm   ASTM D5185n   >10   0       Astm D5185n   >10   0   62       ASTM D5185n   0   12        Magnesium   ppm   ASTM D5185n   0   2084	-				-		
WEAR METALS   method   Imit/base   current   history1   history2     Iron   ppm   ASTM D5185m   >20   13       Othromium   ppm   ASTM D5185m   >10   0       Nickel   ppm   ASTM D5185m   >10   0       Aluminum   ppm   ASTM D5185m   >10   3       Aluminum   ppm   ASTM D5185m   >10   3       Lead   ppm   ASTM D5185m   >10   0       Copper   ppm   ASTM D5185m   0   0       Cadmium   ppm   ASTM D5185m   0   12       ADDITIVES   method   Imit/base   current   history1   history2     Barium   ppm   ASTM D5185m   0   12       Magaesium   ppm   ASTM D5185m   0   3	CONTAMINAT	TION	method	limit/base	current	history1	history2
Iron   ppm   ASTM D5185m   >20   13       Chromium   ppm   ASTM D5185m   >10   <1	Water		WC Method	>0.1	NEG		
Ppm   ASTM D5185m   >10   <1       Nickel   ppm   ASTM D5185m   >10   0       Silver   ppm   ASTM D5185m   0        Auminum   ppm   ASTM D5185m   >10   5       Lead   ppm   ASTM D5185m   >10   3       Copper   ppm   ASTM D5185m   >10   0       Vanadium   ppm   ASTM D5185m   >10   0       ADDITVES   method   Imil/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   2       Magnaese   ppm   ASTM D5185m   0   21       Magnaesium   ppm   ASTM D5185m   0   31       Sulfur   ppm   ASTM D5185m   330   900 </td <td>WEAR METAL</td> <td>S</td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history2</td>	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel   ppm   ASTM D5185m   >10   0       Titanium   ppm   ASTM D5185m   0       Silver   ppm   ASTM D5185m   >10   5       Aluminum   ppm   ASTM D5185m   >10   3       Lead   ppm   ASTM D5185m   >75   6       Copper   ppm   ASTM D5185m   >75   6       Vanadium   ppm   ASTM D5185m   2        ADDITIVES   method   imil/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   2       Maganese   ppm   ASTM D5185m   0   2       Maganesium   ppm   ASTM D5185m   0   2084       Sulfur   ppm   ASTM D5185m   50   2084 <t< td=""><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>&gt;20</td><td>13</td><td></td><td></td></t<>	Iron	ppm	ASTM D5185m	>20	13		
Titanium   ppm   ASTM D5185m   0       Silver   ppm   ASTM D5185m   0       Aluminum   ppm   ASTM D5185m   >10   3       Aluminum   ppm   ASTM D5185m   >10   3       Copper   ppm   ASTM D5185m   >10   0       Vanadium   ppm   ASTM D5185m   10   0       Additium   ppm   ASTM D5185m   0   0       Additium   ppm   ASTM D5185m   0   62       ADDITIVES   method   imit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   2       Molybdenum   ppm   ASTM D5185m   0   211       Marganesium   ppm   ASTM D5185m   0   2084	Chromium	ppm	ASTM D5185m	>10	<1		
Silver   ppm   ASTM D5185m   0       Aluminum   ppm   ASTM D5185m   >10   3       Lead   ppm   ASTM D5185m   >10   3       Copper   ppm   ASTM D5185m   >10   0       Vanadium   ppm   ASTM D5185m   0   0       Vanadium   ppm   ASTM D5185m   0   0       Vanadium   ppm   ASTM D5185m   0   12       ADDITIVES   method   imit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   2       Magnesium   ppm   ASTM D5185m   0   31       Zinc   ppm   ASTM D5185m   0   5178       Sulfur   ppm   ASTM D5185m   >20   9 <td>Nickel</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;10</td> <td>0</td> <td></td> <td></td>	Nickel	ppm	ASTM D5185m	>10	0		
Aluminum   ppm   ASTM D5185m   >10   5       Lead   ppm   ASTM D5185m   >10   3       Copper   ppm   ASTM D5185m   >10   0       Vanadium   ppm   ASTM D5185m   >10   0       Cadmium   ppm   ASTM D5185m   >10   0       ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   62       Maganese   ppm   ASTM D5185m   0   21       Maganese   ppm   ASTM D5185m   0   31       Zinc   ppm   ASTM D5185m   50   2084       Sulfur   ppm   ASTM D5185m   30   900       Solicon   ppm   ASTM D5185m   >20 <t< td=""><td>Titanium</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>0</td><td></td><td></td></t<>	Titanium	ppm	ASTM D5185m		0		
Lead   ppm   ASTM D5185m   >10   3       Copper   ppm   ASTM D5185m   >75   6       Tin   ppm   ASTM D5185m   >10   0       Vanadium   ppm   ASTM D5185m   2       Cadmium   ppm   ASTM D5185m   0   62       ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   62       Molybdenum   ppm   ASTM D5185m   0   2       Magnesium   ppm   ASTM D5185m   0   31       Valdum   ppm   ASTM D5185m   0   2084       Sulfur   ppm   ASTM D5185m   50   2084       Sulfur   ppm   ASTM D5185m   760   5178	Silver	ppm	ASTM D5185m		0		
Copper   ppm   ASTM D5185m   >75   6       Tin   ppm   ASTM D5185m   >10   0       Vanadium   ppm   ASTM D5185m   2       Cadmium   ppm   ASTM D5185m   2       ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   62       Molybdenum   ppm   ASTM D5185m   0   2       Maganese   ppm   ASTM D5185m   0   31       Calcium   ppm   ASTM D5185m   0   31       Sulfur   ppm   ASTM D5185m   50   2084       Sulfur   ppm   ASTM D5185m   760   5178       Sulfur   ppm   ASTM D5185m   >20   9	Aluminum	ppm	ASTM D5185m	>10	5		
Tin   ppm   ASTM D5185m   >10   0       Vanadium   ppm   ASTM D5185m   0        Cadmium   ppm   ASTM D5185m   2        ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   62       Molybdenum   ppm   ASTM D5185m   0   2       Maganese   ppm   ASTM D5185m   0   31       Magnesium   ppm   ASTM D5185m   0   31       Calcium   ppm   ASTM D5185m   0   31       Sulfur   ppm   ASTM D5185m   0   5178       CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m<>20	Lead	ppm	ASTM D5185m	>10	3		
Tin   ppm   ASTM D5185m   >10   0       Vanadium   ppm   ASTM D5185m   0        Cadmium   ppm   ASTM D5185m   2        ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   62       Barium   ppm   ASTM D5185m   0   2       Magnese   ppm   ASTM D5185m   0   21       Magnesium   ppm   ASTM D5185m   0   31       Calcium   ppm   ASTM D5185m   50   2084       Sulfur   ppm   ASTM D5185m   760   5178       Solicon   ppm   ASTM D5185m   >20   9       Solicon   ppm   ASTM D5185m   >20	Copper	ppm	ASTM D5185m	>75	6		
Vanadium ppm ASTM D5185m 0     Cadmium ppm ASTM D5185m 2     ADDITIVES method limit/base current history1 history2   Boron ppm ASTM D5185m 0 62     Molybdenum ppm ASTM D5185m 0 2     Maganese ppm ASTM D5185m 0 2     Magnesium ppm ASTM D5185m 0 31     Calcium ppm ASTM D5185m 0 31     Magnesium ppm ASTM D5185m 0 31     Calcium ppm ASTM D5185m 0 0 31     Sulfur ppm ASTM D5185m 760 5178     Sulfur ppm ASTM D5185m >20 9     Sodium ppm ASTM D5185m >20 2 <td></td> <td></td> <td>ASTM D5185m</td> <td>&gt;10</td> <td>0</td> <td></td> <td></td>			ASTM D5185m	>10	0		
CadmiumppmASTM D5185m2ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m062BariumppmASTM D5185m012MolybdenumppmASTM D5185m02MagneseppmASTM D5185m0<1	Vanadium		ASTM D5185m		0		
BoronppmASTM D5185m062BariumppmASTM D5185m012MolybdenumppmASTM D5185m02ManganeseppmASTM D5185m031MagnesiumppmASTM D5185m031CalciumppmASTM D5185m031PhosphorusppmASTM D5185m330900ZincppmASTM D5185m7605178SulfurppmASTM D5185m7605178CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>209VISUALmethodlimit/basecurrenthistory1history2VisualppmASTM D5185m>202VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLCodorscalar*Visual </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>					-		
BariumppmASTM D5185m012MolybdenumppmASTM D5185m02ManganeseppmASTM D5185m031MagnesiumppmASTM D5185m031CalciumppmASTM D5185m502084PhosphorusppmASTM D5185m330900ZincppmASTM D5185m4301013SulfurppmASTM D5185m76051778SulfurppmASTM D5185m76051778SodiumppmASTM D5185m>209PotassiumppmASTM D5185m>202VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONEYellow Metalscalar*VisualNONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONEAppearancescalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEGFree Waterscalar*V	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m02ManganeseppmASTM D5185m0<1	Boron	ppm	ASTM D5185m	0	62		
ManganeseppmASTM D5185m0<1MagnesiumppmASTM D5185m031CalciumppmASTM D5185m502084PhosphorusppmASTM D5185m330900ZincppmASTM D5185m4301013SulfurppmASTM D5185m7605178CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>209SodiumppmASTM D5185m>202PotassiumppmASTM D5185m>202VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONEYellow Metalscalar*VisualNONENONESitscalar*VisualNONENONESitscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEQdorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLFree Waterscalar*Visual>0.1NEG	Barium	ppm	ASTM D5185m	0	12		
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CalciumppmASTM D5185m502084PhosphorusppmASTM D5185m330900ZincppmASTM D5185m4301013SulfurppmASTM D5185m7605178CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>209SodiumppmASTM D5185m>202PotassiumppmASTM D5185m>202VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLFree Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNORMLNEG	Manganese	ppm	ASTM D5185m	0	<1		
CalciumppmASTM D5185m502084PhosphorusppmASTM D5185m330900ZincppmASTM D5185m4301013SulfurppmASTM D5185m7605178CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>209SodiumppmASTM D5185m>202PotassiumppmASTM D5185m>202VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLQdorscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLFree Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNORMLNEG <td>-</td> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <td>9 31</td> <td></td> <td></td>	-	ppm	ASTM D5185m	0	9 31		
PhosphorusppmASTM D5185m330900ZincppmASTM D5185m4301013SulfurppmASTM D5185m7605178CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>209SodiumppmASTM D5185m202PotassiumppmASTM D5185m>202VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLQdorscalar*VisualNORMLNORMLFree Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNORMLNEG	-		ASTM D5185m	50	2084		
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SulfurppmASTM D5185m7605178CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>209SodiumppmASTM D5185m>202PotassiumppmASTM D5185m>202VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLQdorscalar*VisualNORMLNORMLFree Waterscalar*VisualNORMLNEG			ASTM D5185m				
SiliconppmASTM D5185m>209SodiumppmASTM D5185m4PotassiumppmASTM D5185m>202VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNOREAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLFree Waterscalar*Visual>0.1NEG	-				-		
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White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	Potassium		ASTM D5185m	>20	2		
Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	White Metal	scalar	*Visual	NONE	NONE		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	Debris	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	Appearance	scalar		NORML	NORML		
Emulsified Waterscalar*Visual>0.1NEGFree Waterscalar*VisualNEG	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water						
	Free Water						
							Submitted By



# **OIL ANALYSIS REPORT**





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

\* - 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)

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