

## **OIL ANALYSIS REPORT**

## Area **{UNASSIGNED} P-3301-A** Component **Pump**

#### Pump Fluid ROYAL PURPLE SYNFILM GT 150 (3 GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The water content is negligible. There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Sample Rating Trend

Sample Number   Client Info   P0043864   RP0044302   RP004392   23 Apr 2024     Sample Date   Client Info   97812   97812   97812   97863     Oil Age   hrs   Client Info   13970   13570   13008     Oil Changed   Client Info   Not Changd   Not Changd   Not Changd   Not Changd     Sample Status    method   Imit/base   current   http://	SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Machine Age   hrs   Client Info   97812   97412   96850     Oil Age   hrs   Client Info   13970   13570   13008     Oil Changed   Client Info   NORMAL   NOC Changd   NOC Changd   NOC Changd     Sample Status   Client Info   NORMAL   NORMAL   NORMAL   NORMAL     WEAR METALS   method   imit/base   current   history1   history2     Iron   ppm   ASTM 05165   >5   0   0   0     Nickel   ppm   ASTM 05165   >3   0   0   0     Aluminum   ppm   ASTM 05165   >3   0   0   0     Lead   ppm   ASTM 05165   >30   10   9   8     Tin   ppm   ASTM 05165   >30   0   0   0     Vanadum   ppm   ASTM 05165   >0   0   0   0     Rorn   ppm   ASTM 05165   0   0   0   0	Sample Number		Client Info		RP0045864	RP0044430	RP0043926
Machine Age Oil AgehrsClient Info978129741296850Oil Age Oil ChangedClient Info13370130701300813008Sample StatusIINORMALNORMALNORMALNORMALWEAR METALSmethodimit/basecurrenthistory12IronppmASTM 05158>504<12ChromiumppmASTM 05158>55000NickelppmASTM 05158>53000TaniumppmASTM 05158>32000IkinorppmASTM 05158>32000LeadppmASTM 05158>32000LeadppmASTM 05158>301098TinppmASTM 05158>30000VanadumppmASTM 051580000AdminumppmASTM 051580000MolybdenumppmASTM 051580011MagnesiumppmASTM 051580011MagnesiumppmASTM 051580011MagnesiumppmASTM 051580111MagnesiumppmASTM 051580111MagnesiumppmASTM 051582111Magnesiumppm	Sample Date		Client Info		10 Jul 2024	30 May 2024	23 Apr 2024
Oil Changed Sample StatusClient InfoNot Changd NORMALNot Changd NORMALNor Changd NORMALNor Changd NORMALWEAR METALSmethodlimit/basecurrentNot Changd NORMALNor Changd NORMALNor Changd NORMALWEAR METALSmethodlimit/basecurrentNot Changd NormalNor Changd NORMALNor Changd NORMALOthomiumppmASTM 05185m>50000NickelppmASTM 05185m>33000AluminumppmASTM 05185m>33000LeadppmASTM 05185m>301098TinppmASTM 05185m>9000AdadiumppmASTM 05185m9000AdadiumppmASTM 05185m0000AdadiumppmASTM 05185m0000AdagenesiumppmASTM 05185m001718GalciumppmASTM 05185m0111ProsphorusppmASTM 05185m>602<1<	Machine Age	hrs	Client Info		97812	97412	96850
Sample Status   method   imit/base   current   history1   history2     Iron   ppm   ASTM DS185m   >90   4   <1   2     Chromium   ppm   ASTM DS185m   >55   0   0   0     Nickel   ppm   ASTM DS185m   >55   0   0   0     Tatanium   ppm   ASTM DS185m   >57   0   0   0     Aluminum   ppm   ASTM DS185m   >7   0   0   0     Lead   ppm   ASTM DS185m   >7   0   0   0     Vanadium   ppm   ASTM DS185m   >70   0   0   0     Vanadium   ppm   ASTM DS185m   90   0   0   0     Cadmium   ppm   ASTM DS185m   0   0   0   0     Magaese   ppm   ASTM DS185m   0   -1   0     Magaese   ppm   ASTM DS185m   0   -1   0 <td< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>13970</th><th>13570</th><th>13008</th></td<>	Oil Age	hrs	Client Info		13970	13570	13008
WEAR METALS   method   limit/base   current   history1   history2     Iron   ppm   ASTM D5185m   >50   0   0   0     Nickel   ppm   ASTM D5185m   >55   0   0   0     Silver   ppm   ASTM D5185m   >3   0   0   0     Auminum   ppm   ASTM D5185m   >3   0   0   0     Auminum   ppm   ASTM D5185m   >7   0   0   0     Lead   ppm   ASTM D5185m   >30   10   9   8     Tin   ppm   ASTM D5185m   0   0   0   0     Adadum   ppm   ASTM D5185m   0   0   0   0     Adadum   ppm   ASTM D5185m   0   0   0   0     Adadum   ppm   ASTM D5185m   0   0   1   1     Adadum   ppm   ASTM D5185m   0   -1   0   0	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Iron   ppm   ASTM D5185m   >90   4   <1	Sample Status				NORMAL	NORMAL	NORMAL
Chromium   ppm   ASTM D5185m   >5   0   0   0     Nickel   ppm   ASTM D5185m   >5   0   0   0     Titanium   ppm   ASTM D5185m   >3   0   0   0     Silver   ppm   ASTM D5185m   >3   0   0   0     Auminum   ppm   ASTM D5185m   >7   0   0   0     Lead   ppm   ASTM D5185m   >7   0   0   0     Chandium   ppm   ASTM D5185m   >12   4   1   <-1     Cadmium   ppm   ASTM D5185m   0   0   0   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     Barium   ppm   ASTM D5185m   0   0   1   1     Maggaese   ppm   ASTM D5185m   0   4   2     Phosphorus   ppm   ASTM D5185m   20   <1   1   1	WEAR METALS		method	limit/base	current	history1	history2
Nickel   ppm   ASTM D5185m   >5   0   0   0     Titanium   ppm   ASTM D5185m   >3   0   0   <1     Silver   ppm   ASTM D5185m   >3   0   0   <1     Aluminum   ppm   ASTM D5185m   >12   4   1   <1     Copper   ppm   ASTM D5185m   >30   10   9   8     Tin   ppm   ASTM D5185m   >9   0   0   0     Vanadium   ppm   ASTM D5185m   0   0   0   1     Cadmium   ppm   ASTM D5185m   0   0   0   0     Barium   ppm   ASTM D5185m   0   0   1   1     Manganese   ppm   ASTM D5185m   0   1   1   1     Manganese   ppm   ASTM D5185m   0   42   49   42     Zinc   ppm   ASTM D5185m   20   <1   1   1	Iron	ppm	ASTM D5185m	>90	4	<1	2
Titanium   ppm   ASTM D5185m   >3   0   0   0     Silver   ppm   ASTM D5185m   >3   0   0   <11     Aluminum   ppm   ASTM D5185m   >7   0   0   0     Lead   ppm   ASTM D5185m   >12   4   1   <11     Copper   ppm   ASTM D5185m   >30   10   9   8     Tin   ppm   ASTM D5185m   0   0   0   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     ADDITIVES   method   imit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   0   0   0     Magaesse   ppm   ASTM D5185m   0   17   18     Calcium   ppm   ASTM D5185m   0   42   49   42     Zinc   ppm   ASTM D5185m   20   <1   1   1	Chromium	ppm	ASTM D5185m	>5	0	0	0
Silver   ppm   ASTM D5185m   >3   0   0   <1	Nickel	ppm	ASTM D5185m	>5	0	0	0
Aluminum   ppm   ASTM D5185m   >7   0   0   0     Lead   ppm   ASTM D5185m   >12   4   1   <1     Copper   ppm   ASTM D5185m   >30   10   9   8     Tin   ppm   ASTM D5185m   0   0   0   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     Boron   ppm   ASTM D5185m   0   0   0   0     Barium   ppm   ASTM D5185m   0   0   1   0     Magnesium   ppm   ASTM D5185m   0   177   18     Calcium   ppm   ASTM D5185m   0   177   18     Calcium   ppm   ASTM D5185m   0   2   1   1     Solium   ppm   ASTM D5185m   20   <1   <1   1     Solium	Titanium	ppm	ASTM D5185m	>3	0	0	0
Lead   ppm   ASTM D5185m   >12   4   1   <1	Silver	ppm	ASTM D5185m	>3	0	0	<1
Copper   ppm   ASTM D5185m   >30   10   9   8     Tin   ppm   ASTM D5185m   >9   0   0   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   0   0   0   0     Magnesium   ppm   ASTM D5185m   0   -1   0   0     Magnesium   ppm   ASTM D5185m   0   17   18   0   42   2     Phosphorus   ppm   ASTM D5185m   0   42   49   42   2     Zinc   ppm   ASTM D5185m   60   2   <1   -1   1     Potassium   ppm   ASTM D5185m   >20   <1   <1   0   0     Sticion   ppm	Aluminum	ppm	ASTM D5185m	>7	0	0	0
Tin   ppm   ASTM D5185m   >9   0   0   0     Vanadium   ppm   ASTM D5185m   0   0   0   <1	Lead	ppm	ASTM D5185m	>12	4	1	<1
Vanadium   ppm   ASTM D5185m   0   0   <1	Copper	ppm	ASTM D5185m	>30	10	9	8
Cadmium ppm ASTM D5185m 0 0 0   ADDITIVES method limit/base current history1 history2   Boron ppm ASTM D5185m 0 0 0   Molybdenum ppm ASTM D5185m 0 0 1   Manganese ppm ASTM D5185m 0 1 0   Magnesium ppm ASTM D5185m 0 17 18   Calcium ppm ASTM D5185m 0 17 18   Calcium ppm ASTM D5185m 0 42 49 42   Zinc ppm ASTM D5185m 60 2 <1	Tin	ppm	ASTM D5185m	>9	0	0	0
ADDITIVES method limit/base current history1 history2   Boron ppm ASTM D5185m 0 0 0   Malganese ppm ASTM D5185m 0 0 0   Manganese ppm ASTM D5185m 0 0 1   Manganese ppm ASTM D5185m 0 -1 0   Maganesium ppm ASTM D5185m 0 -1 0   Calcium ppm ASTM D5185m 0 -1 0   Maganesium ppm ASTM D5185m 0 42 2   Phosphorus ppm ASTM D5185m 39 51 53   CONTAMINANTS method limit/base current history1 history2   Silicon ppm ASTM D5185m 20 <1 <1 1   Potassium ppm ASTM D5185m >20 <1 <1 0   Water % ASTM D504<>1000 157 87 68 2   FLUID DEGRADATION method limit/base	Vanadium	ppm	ASTM D5185m		0	0	<1
Boron   ppm   ASTM D5185m   0   0   0   0     Barium   ppm   ASTM D5185m   0   0   1     Manganese   ppm   ASTM D5185m   0   -1   0     Magnesium   ppm   ASTM D5185m   0   -1   0     Calcium   ppm   ASTM D5185m   0   42   49   42     Phosphorus   ppm   ASTM D5185m   42   49   42   2     Zinc   ppm   ASTM D5185m   39   51   53   53     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >60   2   <1   <1     Sodium   ppm   ASTM D5185m   >20   <1   <1   0     Water   %   ASTM D6304   >.1   0.015   0.008   0.006     ppm Water   pm   ASTM D8045   0.168   0.219   0.147     VISUAL <th>Cadmium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Cadmium	ppm	ASTM D5185m		0	0	0
BariumppmASTM D5185m000MolybdenumppmASTM D5185m0-10MaganeseppmASTM D5185m0-10MagnesiumppmASTM D5185m01718CalciumppmASTM D5185m042PhosphorusppmASTM D5185m042ZincppmASTM D5185m395153CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>602<1<1SodiumppmASTM D5185m>20<1<10Water%ASTM D5185m>20<1<10Water%ASTM D5185m>20<1<10WaterppmASTM D5185m>20<1<10WaterppmASTM D6304>.10.0150.0080.006ppm WaterppmASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*Visual <t< th=""><th>ADDITIVES</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m001MarganeseppmASTM D5185m0<10MagnesiumppmASTM D5185m01718CalciumppmASTM D5185m042PhosphorusppmASTM D5185m424942ZincppmASTM D5185m424942ZincppmASTM D5185m395153CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>602<1<1PotassiumppmASTM D5185m>20<1<10Water%ASTM D5185m>20<1<10Water%ASTM D6304>.10.0150.0080.006ppm WaterppmASTM D6304>.10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONENONESiltscalar*VisualNO	Boron	ppm	ASTM D5185m		0	0	0
ManganeseppmASTM D5185m0<1	Barium	ppm	ASTM D5185m		0	0	0
MagnesiumppmASTM D5185m01718CalciumppmASTM D5185m042PhosphorusppmASTM D5185m424942ZincppmASTM D5185m395153CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m5602<1<1SodiumppmASTM D5185m1111PotassiumppmASTM D5185m>20<1<10Water%ASTM D6304>.10.0150.0080.006ppm WaterppmASTM D6304>10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAstriationalvisualNONENONENONENONENONENONEAcid Numberscalar*VisualNONENONENONENONENONE<	Molybdenum	ppm	ASTM D5185m		0	0	1
CalciumppmASTM D5185m042PhosphorusppmASTM D5185m424942ZincppmASTM D5185m395153CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>602<1<1SodiumppmASTM D5185m>602<1<1PotassiumppmASTM D5185m>20<1<10Water%ASTM D6304>.10.0150.0080.006ppm WaterppmASTM D6304>.10.0150.0080.006ppm WaterppmASTM D6304>.10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLA	Manganese	ppm	ASTM D5185m		0	<1	0
PhosphorusppmASTM D5185m424942ZincppmASTM D5185m395153CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>602<1<1SodiumppmASTM D5185m>602<1<1PotassiumppmASTM D5185m>20<1<10Water%ASTM D5185m>20<1<10Water%ASTM D6304>.10.0150.0080.006ppmASTM D6304>.10.0150.0080.006ppm WaterppmASTM D6304>10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLAppearancescalar <td< th=""><th>Magnesium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>17</th><th>18</th></td<>	Magnesium	ppm	ASTM D5185m		0	17	18
ZincppmASTM D5185m395153CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>602<1<1SodiumppmASTM D5185m1111PotassiumppmASTM D5185m>20<1<10Water%ASTM D6304>.10.0150.0080.006ppmWaterppmASTM D6304>.10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLCordscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORML	Calcium	ppm	ASTM D5185m		0	4	2
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>602<1<1SodiumppmASTM D5185m1111PotassiumppmASTM D5185m>20<1<10Water%ASTM D5185m>20<1<10Water%ASTM D6304>.10.0150.0080.006ppm WaterppmASTM D6304>10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAstd/Dirtscalar*VisualNORMLNORMLNORMLNORMLAcid Numescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORML	Phosphorus	ppm	ASTM D5185m		42	49	42
SiliconppmASTM D5185m>602<1	Zinc	ppm	ASTM D5185m		39	51	53
SodiumppmASTM D5185m1111PotassiumppmASTM D5185m>20<1<10Water%ASTM D6304>.10.0150.0080.006ppm WaterppmASTM D6304>10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEG	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20<1	Silicon	ppm	ASTM D5185m	>60	2	<1	<1
Water%ASTM D6304>.10.0150.0080.006ppm WaterppmASTM D6304>10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEG	Sodium	ppm	ASTM D5185m		1	1	1
ppm WaterppmASTM D6304>10001578768FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	<1	<1	0
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEG	Water	%	ASTM D6304	>.1	0.015	0.008	0.006
Acid Number (AN)mg KOH/gASTM D80450.1680.2190.147VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG	ppm Water	ppm	ASTM D6304	>1000	157	87	68
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
White Metal scalar *Visual NONE NONE NONE NONE NONE   Yellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE   Precipitate scalar *Visual NONE NONE NONE NONE NONE   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 NORML   Odor scalar *Visual NORML NORML NORML NORML   Emulsified Water scalar *Visual >.1 NEG NEG NEG   Free Water scalar *Visual NEG NEG NEG NEG	Acid Number (AN)	mg KOH/g	ASTM D8045		0.168	0.219	0.147
Yellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNeg	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Yellow Metal	scalar			NONE		
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGFree Waterscalar*VisualNEGNEGNEG	•	scalar			-		
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG		scalar					
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG	Debris	scalar				NONE	NONE
Odor   scalar   *Visual   NORML   NORML   NORML   NORML   NORML     Emulsified Water   scalar   *Visual   >.1   NEG   NEG   NEG     Free Water   scalar   *Visual   NEG   NEG   NEG   NEG		scalar					NONE
Emulsified Water   scalar   *Visual   >.1   NEG   NEG   NEG     Free Water   scalar   *Visual   NEG   NEG   NEG   NEG		scalar					
Free Water scalar *Visual NEG NE&ubmitted BynEeam Sur		scalar					
		scalar	*Visual	>.1			
	Free Water	scalar	*Visual		NEG	NEeubmitte	



# **OIL ANALYSIS REPORT**



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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