

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

## NORMAL

# L-10 88 DISTRIBUTION

**Gearbox** 

## PETRO CANADA ENDURATEX EP 460 (40 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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.

											- 4
										1.1	
										1	
										1	
										1	

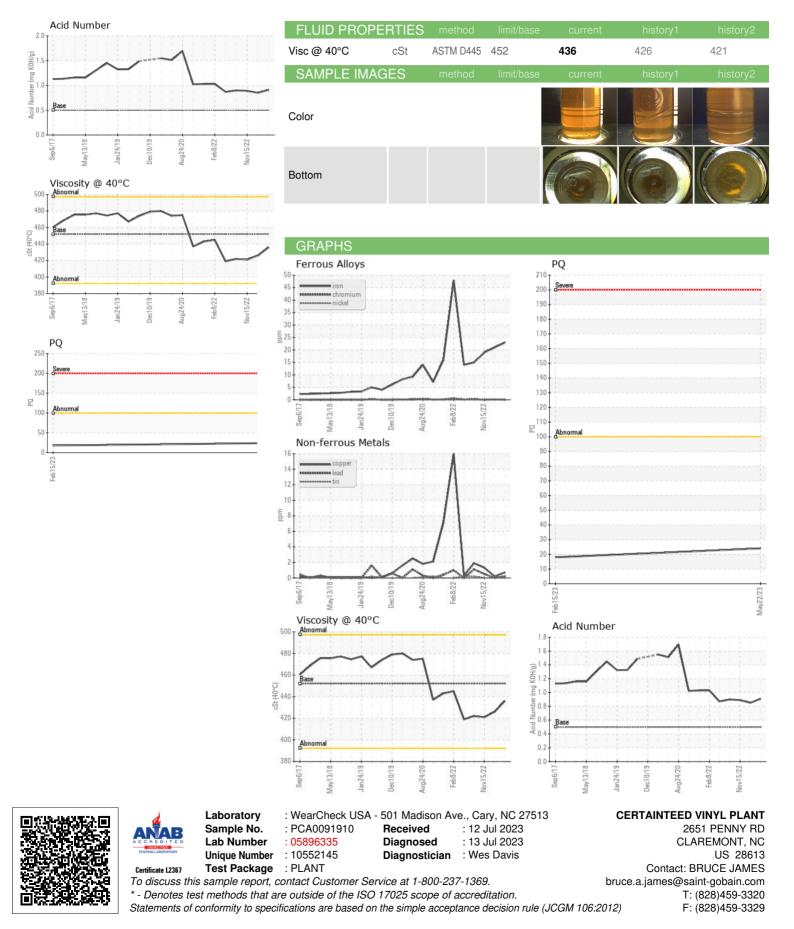


#### p2017 May2018 Jan2019 Dec2019 Aug2020 Feb2022 Nov2022

Sample Date     Client Info     22 May 2023     15 Feb 2023     15 Nov 2022       Machine Age     hrs     Client Info     0     0     0       Oll Age     hrs     Client Info     0     0     0       Oil Age     hrs     Client Info     N/A     N/A     N/A     N/A       Sample Status     method     limit/base     current     history1     history2       PQ     ASTM D5185m     >200     23     21     19       Chromium     ppm     ASTM D5185m     >15     0     0     0       Titanium     ppm     ASTM D5185m     >200     21     1     1     1       Silver     ppm     ASTM D5185m     >200     <1	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age OI Age OI Changed IrsClient Info000OI Changed Sample StatusClient InfoN/AN/AN/ASample StatusIImit/basecurrenthistoryVEAR METALSmethodimit/basecurrenthistoryPQASTM D81842418IronppmASTM D8185>200232119ChromiumppmASTM D5185>15000NickelppmASTM D5185>15001SilverppmASTM D5185>25<10<1LeadppmASTM D5185>25<10<1CopperppmASTM D5185>25000VanadiumppmASTM D5185>25000VanadiumppmASTM D51850000VanadiumppmASTM D51850000ADDITIVESmethodImit/basecurrenthistoryhistoryBoronppmASTM D5185011<1<1MagnesiumppmASTM D5185011<1<1AdditionppmASTM D5185011<1<1Kim D51850-111<1<1<1<1MagnesiumppmASTM D51850-111<1<1<1<1<	Sample Number		Client Info		PCA0091910	PCA0091893	PCA0080537
Oil Age hrs Client Info 0 0 0   Oil Changed Client Info N/A N/A N/A N/A   Sample Status Client Info N/A N/A N/A N/A   WEAR METALS method limibas current history1 history2   PQ ASTM DS185m >200 23 21 19   Chromium ppm ASTM DS185m >15 0 0 0   Titanium ppm ASTM DS185m >15 0 0 0   Titanium ppm ASTM DS185m >200 21 1 1   Silver ppm ASTM DS185m >200 <1 0 <1   Cadead ppm ASTM DS185m >200 <1 <1 1   Lead ppm ASTM DS185m >200 <1 <1 1   Cadmium ppm ASTM DS185m 0 0 0 0   Cadmium ppm ASTM DS185m 0 <1 <1 <1   Roron ppm ASTM DS185m 0 <1 <1 <1   Marganese ppm ASTM DS185m 0 <1 <1	Sample Date		Client Info		22 May 2023	15 Feb 2023	15 Nov 2022
Oli Changed Client Info N/A N/A N/A N/A   Sample Status Image of the status Normal Normal Normal Normal   WEAR METALS method limit/base current history1 history2   PQ ASTM 05185m >200 23 21 19   Chromium ppm ASTM 05185m >15 0 -1 0   Nickel ppm ASTM 05185m >15 0 -1 0   Silver ppm ASTM 05185m >15 0 -1 1   Silver ppm ASTM 05185m >200 -1 -1 1   Copper ppm ASTM 05185m >200 -1 -1 1   Tin ppm ASTM 05185m >200 -1 -1 1   Tin ppm ASTM 05185m 0 0 0 0   Adamium ppm ASTM 05185m 0 0 0 0   Adamium ppm ASTM 05185m 0 0 0 0   Adamium ppm ASTM 05185m 0 -1 -1 -1   Barium ppm ASTM 05185m 0	Machine Age	hrs	Client Info		0	0	0
Sample Status     Mormal     NORMAL     NORMAL     NORMAL     NORMAL       WEAR METALS     method     imit/base     current     history1     history2       PQ     ASTM D8184     24     18        Iron     ppm     ASTM D8185     >15     0     <1     0       Chromium     ppm     ASTM D8185     >15     0     0     0     1       Nokel     ppm     ASTM D8185     >15     0     0     0     2       Aluminum     ppm     ASTM D5185     >100     <1     0     <1     1       Lead     ppm     ASTM D5185     >255     0     0     0     0       Vanadium     ppm     ASTM D5185     >255     18     18     21       Barium     ppm     ASTM D5185     0     0     0     0       Maganese     ppm     ASTM D5185     0     <1     <1     <1       Maganesium     ppm     ASTM D5185     0     <1 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Oil Age	hrs	Client Info		0	0	0
WEAR METALS     method     imit/base     current     history1     history2       PQ     ASTM 05165m     >200     23     21     19       Chromium     ppm     ASTM 05165m     >15     0     <1     0       Nickel     ppm     ASTM 05165m     >15     0     0     0     21       Titanium     ppm     ASTM 05165m     >15     0     0     0     21       Aluminum     ppm     ASTM 05165m     >100     <1     0     <1     1       Copper     ppm     ASTM 05165m     >225     <1     0     0     0       Copper     ppm     ASTM 05165m     >225     0     0     0     0       Copper     ppm     ASTM 05165m     >225     0     0     0     0       Copper     ppm     ASTM 05165m     >225     0     0     0     0       Copper     ppm     ASTM 05165m     >20     1     1     1     1     1	Oil Changed		Client Info		N/A	N/A	N/A
PQASTM D81842418ironppmASTM D8185m>200232119ChromiumppmASTM D8185m>150<10NickelppmASTM D8185m>150002NickelppmASTM D8185m>150021SilverppmASTM D5185m>25<1002AluminumppmASTM D5185m>25<1001LeadppmASTM D5185m>200<1<111TinppmASTM D5185m>200<1<111TinppmASTM D5185m>200<1<111TinppmASTM D5185m>200<1<111CopperppmASTM D5185m>200<1<111TinppmASTM D5185m000000ADDITIVESmethodimit/basecurrenthistory1history2BoronppmASTM D5185m0<1<1<11MagnesiumppmASTM D5185m0<1<1<11AgenesiumppmASTM D5185m2<1<1<11AstM D5185m200134337134SulfurppmASTM D5185m2001343	Sample Status				NORMAL	NORMAL	NORMAL
ron     ppm     ASTM D5185m     >200     23     21     19       Chromium     ppm     ASTM D5185m     >15     0     <1     0       Nickel     ppm     ASTM D5185m     >15     0     0     0     0       Titanium     ppm     ASTM D5185m     <1     <1     <1     <1       Silver     ppm     ASTM D5185m     >25     <1     0     <1       Lead     ppm     ASTM D5185m     >200     <1     <1     1       Copper     ppm     ASTM D5185m     >200     <1     <1     1       Tin     ppm     ASTM D5185m     >200     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Addmium     ppm     ASTM D5185m     0     <1     0     0       Maganese     ppm     ASTM D5185m     0     <1     <1     <1       Maganese     ppm     ASTM D5185m     2     <1	WEAR METAL	S	method	limit/base	current	history1	history2
Chromium     ppm     ASTM D5185m     >15     0     <1	PQ		ASTM D8184		24	18	
Nickel     ppm     ASTM D5185m     >15     0     0     0       Titanium     ppm     ASTM D5185m     <1     <1     <1     <1       Silver     ppm     ASTM D5185m     >25     <1     0     <1       Aluminum     ppm     ASTM D5185m     >25     <1     0     <1       Lead     ppm     ASTM D5185m     >200     <1     <1     1       Copper     ppm     ASTM D5185m     >200     <1     <1     1       Tin     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITVES     method     imit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magaaese     ppm     ASTM D5185m     0     <1     <1     <1       Calcium     ppm     ASTM D5185m     240     414     383	Iron	ppm	ASTM D5185m	>200	23	21	19
TitaniumppmASTM D5185m<1	Chromium	ppm	ASTM D5185m	>15	0	<1	0
Silver     ppm     ASTM D5185m     0     0     2       Aluminum     ppm     ASTM D5185m<>25     <1     0     <1       Lead     ppm     ASTM D5185m<>100     <1     0     <1       Copper     ppm     ASTM D5185m     >200     <1     <1     1       Tin     ppm     ASTM D5185m     >200     <1     <1     1       Tin     ppm     ASTM D5185m     >200     <1     <1     1       Tin     ppm     ASTM D5185m     >25     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0     0       ADDITIVES     method     timit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1     <1     <1       Magnesium     ppm     ASTM D5185m     0     <1     <1     <1       Galcium     ppm     ASTM D5185m     240     414     383     403	Nickel	ppm	ASTM D5185m	>15	0	0	0
Aluminum     ppm     ASTM D5185m     >25     <1	Titanium	ppm	ASTM D5185m		<1	<1	<1
Lead     ppm     ASTM D5185m     >100     <1	Silver	ppm	ASTM D5185m		0	0	2
Copper     ppm     ASTM D5185m     >200     <1	Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
Tin     ppm     ASTM D5185m     >25     0     0     0       Vanadium     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     55     18     18     21       Barium     ppm     ASTM D5185m     0     -1     0     0       Magnese     ppm     ASTM D5185m     0     -1     -1     -1       Magnese     ppm     ASTM D5185m     0     -1     -1     -1       Calcium     ppm     ASTM D5185m     2     -1     -1     -1     -1       Calcium     ppm     ASTM D5185m     240     414     383     403       Zinc     ppm     ASTM D5185m     10310     6202     5124     6661       CONTAMINANTS     method     limit/base     current	Lead	ppm	ASTM D5185m	>100	<1	0	<1
Vanadium     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       Barium     ppm     ASTM D5185m     0     <1     0     0       Magnese     ppm     ASTM D5185m     0     <1     <1     <1       Magnesium     ppm     ASTM D5185m     2     <1     <1     <1     <1       Calcium     ppm     ASTM D5185m     2.0     414     383     403       Zinc     ppm     ASTM D5185m     10310     6202     5124     6661       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >50     1     3     4       Sodium     ppm     ASTM D5185m     >20 <t< th=""><th>Copper</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;200</th><th>&lt;1</th><th>&lt;1</th><th>1</th></t<>	Copper	ppm	ASTM D5185m	>200	<1	<1	1
CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m55181821BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0<100ManganeseppmASTM D5185m0<1<1<1MagnesiumppmASTM D5185m2<1<1<1CalciumppmASTM D5185m2<1<1<1CalciumppmASTM D5185m240414383403ZincppmASTM D5185m10310620251246661CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar<	Tin	ppm	ASTM D5185m	>25	0	0	0
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m55181821BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0<100ManganeseppmASTM D5185m0<1<1<1MagnesiumppmASTM D5185m2<1<1<1CalciumppmASTM D5185m2<1<1<1CalciumppmASTM D5185m240414383403ZincppmASTM D5185m240414383403ZincppmASTM D5185m10310620251246661CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONE	Vanadium	ppm	ASTM D5185m		0	0	0
BoronppmASTM D5185m55181821BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0<100MaganeseppmASTM D5185m0<1<1<1MagnesiumppmASTM D5185m2<1<1<1CalciumppmASTM D5185m2<1<1<1CalciumppmASTM D5185m240414383403ZincppmASTM D5185m3412SulfurppmASTM D5185m10310620251246661CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONED	Cadmium	ppm	ASTM D5185m		0	0	0
BariumppmASTM D5185m00000MolybdenumppmASTM D5185m0<100MaganeseppmASTM D5185m0<1<1<1MagnesiumppmASTM D5185m2<1<1<1CalciumppmASTM D5185m2<1<1<1CalciumppmASTM D5185m6363337PhosphorusppmASTM D5185m2404114383403ZincppmASTM D5185m3412SulfurppmASTM D5185m10310620251246661CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebris </th <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m0<100MarganeseppmASTM D5185m0<1	Boron	ppm	ASTM D5185m	55	18	18	21
ManganeseppmASTM D5185m0<1	Barium	ppm	ASTM D5185m	0	0	0	0
MagnesiumppmASTM D5185m2<1	Molybdenum	ppm	ASTM D5185m	0	<1	0	0
CalciumppmASTM D5185m6363337PhosphorusppmASTM D5185m240414383403ZincppmASTM D5185m3412SulfurppmASTM D5185m10310620251246661CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m>50134SodiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLAcid Numerscalar*VisualNORMLNORMLNORML	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
PhosphorusppmASTM D5185m240414383403ZincppmASTM D5185m3412SulfurppmASTM D5185m10310620251246661CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m>50134SodiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLAcid Numerscalar*VisualNORMLNORMLNORMLNORML	Magnesium	ppm	ASTM D5185m	2	<1	<1	<1
ZincppmASTM D5185m3412SulfurppmASTM D5185m10310620251246661CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m>50134SodiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONESoloritscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORML	Calcium	ppm	ASTM D5185m	6	36	33	37
SulfurppmASTM D5185m10310620251246661CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m>50134PotassiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAcid Numberscalar*VisualNONENONENONENONENONEVisualNONENONENONENONENONENONENONENONESoldscalar*VisualNONENONENONENONENONENONEQuartscalar*VisualNONENONENONENONENONENONEGodorscalar*VisualNONENONENONENONENORMLNORMLNORMLNORMLGodor <th>Phosphorus</th> <th>ppm</th> <th>ASTM D5185m</th> <th>240</th> <th>414</th> <th>383</th> <th>403</th>	Phosphorus	ppm	ASTM D5185m	240	414	383	403
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50134SodiumppmASTM D5185m000PotassiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEVLITELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAstrictscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Zinc	ppm	ASTM D5185m	3	4	1	2
SiliconppmASTM D5185m>50134SodiumppmASTM D5185m0000PotassiumppmASTM D5185m>20223FLUID DEGRADATION method limit/base currenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENUTELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLCdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Sulfur	ppm	ASTM D5185m	10310	6202	5124	6661
SodiumppmASTM D5185m000PotassiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEVLITELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	CONTAMINAN	TS	method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20223FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEVLITELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGNEG	Silicon	ppm	ASTM D5185m	>50	1	3	4
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEVLITELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTLIGHTNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Sodium	ppm	ASTM D5185m		0	0	0
Acid Number (AN)mg KOHgASTM D80450.50.910.850.89VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEVLITELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTLIGHTNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	2	2	3
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEVLITELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTLIGHTNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
White Metalscalar*VisualNONENONEVLITELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTLIGHTNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Acid Number (AN)	mg KOH/g	ASTM D8045	0.5	0.91	0.85	0.89
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTLIGHTNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	VISUAL		method			history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTLIGHTNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	White Metal						
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTLIGHTNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Yellow Metal						NONE
Debrisscalar*VisualNONELIGHTLIGHTNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	•	scalar			-		
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Silt	scalar		NONE		NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.2 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG ion: BEGICE JAMESNEGERCLA	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	ion: BEGICE JA	MESNECERCLA



# **OIL ANALYSIS REPORT**



Contact/Location: BRUCE JAMES - CERCLA