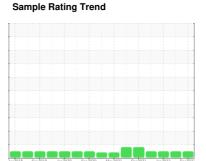


## **OIL ANALYSIS REPORT**





### Area KEMP QUARRIES / BCS - GRAVETTE [66776] WL125 Component Transmission (Manual)

PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

Sample Date     Client Info     21 Dec 2023     16 Jun 2023     12 Jan 202       Machine Age     hrs     Client Info     399020     39423     38868       Oil Age     hrs     Client Info     71821     39423     38868       Oil Changed     Client Info     T1821     39423     38868       Oil Changed     Client Info     Changed     N/A     Changed       Sample Status     Client Info     Changed     N/A     Changed       Water     WC Method     >0.1     NEG     NEG     NEG       Wear     WC Method     >0.1     NEG     NEG     NEG       Wear     WC Method     >0.1     NEG     NEG     NEG       Wear     WC Method     >0.1     NEG     NEG     O     0     1 <td< th=""><th>Sample Date     Client Info     21 Dec 2023     16 Jun 2023     12 Jan 2       Machine Age     hrs     Client Info     399020     39423     38868       Oil Age     hrs     Client Info     71821     39423     38868       Oil Age     Client Info     Changed     NORMAL     NORMAL     NORMAL       Sample Status     Client Info     Changed     NORMAL     NORMAL     NORMAL     NORMAL       Water     WC Method     &gt;0.1     NEG     NEG     NEG     NEG       WEAR METALS     method     linit/base     current     history1     history1       Iron     ppm     ASTM 05185m     &gt;5     0     0     0       Nickel     ppm     ASTM 05185m     &gt;5     0     -1     -1       Copper     ppm     ASTM 05185m     &gt;25     &lt;1     0     -1     -1       Aranium     ppm     ASTM 05185m     &gt;25     51     70     0     0     0     0     0     0     12     24</th></td<> <th>SAMPLE INFOF</th> <th>RMATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	Sample Date     Client Info     21 Dec 2023     16 Jun 2023     12 Jan 2       Machine Age     hrs     Client Info     399020     39423     38868       Oil Age     hrs     Client Info     71821     39423     38868       Oil Age     Client Info     Changed     NORMAL     NORMAL     NORMAL       Sample Status     Client Info     Changed     NORMAL     NORMAL     NORMAL     NORMAL       Water     WC Method     >0.1     NEG     NEG     NEG     NEG       WEAR METALS     method     linit/base     current     history1     history1       Iron     ppm     ASTM 05185m     >5     0     0     0       Nickel     ppm     ASTM 05185m     >5     0     -1     -1       Copper     ppm     ASTM 05185m     >25     <1     0     -1     -1       Aranium     ppm     ASTM 05185m     >25     51     70     0     0     0     0     0     0     12     24	SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Date     Client Info     21 Dec 2023     16 Jun 2023     12 Jan 202       Machine Age     hrs     Client Info     399020     39423     38868       Oil Age     Dir Changed     Client Info     71821     39423     38868       Oil Changed     Client Info     71821     39423     38868       Sample Status     Client Info     71821     39423     38868       CONTAMINATION     method     Imit/base     current     History1     History1       Water     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     Imit/base     current     History1     History1       Iron     ppm     ASTM 05185m     >5     0     0     0       Kiron     ASTM 05185m     >7     0     0     0     0       Astm 05185m     >7     0     0     0     0     0       Astm 05185m     >225     51     7     0     0     0       Astm 05185m     16     0	Sample Date     Client Info     21 Dec 2023     16 Jun 2023     12 Jan 2       Machine Age     hrs     Client Info     399020     39423     38868       Oil Age     hrs     Client Info     71821     39423     38868       Oil Anged     Client Info     Changed     N/A     Changed     NORMAL     NORMAL     NORMAL       CONTAMINATION     method     Imit/base     current     history1     hist       Water     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     Imit/base     current     history1     hist       Iron     ppm     ASTM 05185m     >200     5     8     8       Chromium     ppm     ASTM 05185m     >5     0     0     0       Irkicle     ppm     ASTM 05185m     >7     0     0     0     14     14       Lead     ppm     ASTM 05185m     >25     51     7     0     0     0     0     0     14     15	Sample Number		Client Info		PCA0069842	PCA0086354	PCA008673
Oil Age hrs Client Info 71821 39423 38868   Oil Changed Client Info Changed N/A Changed   Sample Status Imit Method Imit/base Current NoRMAL NoRMAL   CONTAMINATION method Imit/base current history1 history1   Water WC Method >0.1 NEG NEG NEG   WEAR METALS method Imit/base current history1 history1   Iron ppm ASTM 05185m >20 5 8 8   Chromium ppm ASTM 05185m >5 0 0 0   Nickel ppm ASTM 05185m >7 0 0 0   Aluminum ppm ASTM 05185m >7 0 0 0   Aluminum ppm ASTM 05185m >225 51 70 191   Tin ppm ASTM 05185m >225 51 70 10   Vanadium ppm ASTM 05185m 22 3 4   Barium ppm ASTM 05185m 22 3 4   Barium ppm ASTM 05185m 1 69 64 <	Oil Age     Inrs     Client Info     71821     39423     38868       Oil Changed     Client Info     Changed     N/A     Changed       Sample Status     Imit Diase     Current     History1     Hist       Water     WC Method     >0.1     NEG     NEG     NEG       Water     WC Method     >0.1     NEG     NEG     NEG       Chromium     ppm     ASTM 05185m     >200     5     8     8       Chromium     ppm     ASTM 05185m     >200     5     0     0     <1	Sample Date		Client Info		21 Dec 2023	16 Jun 2023	12 Jan 2023
Oil ChangedClient InfoChanged NORMALN/AChanged NORMALSample StatusImageNORMALNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history1WaterWC Method>0.1NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history1IronppmASTM D5185m>200588ChromiumppmASTM D5185m>5000NickelppmASTM D5185m>5000NickelppmASTM D5185m>7000AuminumppmASTM D5185m>7000AuminumppmASTM D5185m>255170191InnppmASTM D5185m>10<1	Oil Changed Sample Status     Client Info     Changed NORNAL     N/A     Change NORMAL       CONTAMINATION     method     imit/base     current     history1     history1       Water     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     imit/base     current     history1     history1       Iron     ppm     ASTM D5185m     >200     5     8     8       Chromium     ppm     ASTM D5185m     >5     0     0     0       Nickel     ppm     ASTM D5185m     >7     0     0     0       Silver     ppm     ASTM D5185m     >25     1     0     -1       Copper     ppm     ASTM D5185m     >225     51     70     191       Tin     ppm     ASTM D5185m     >10     -1     -1     -1       Vanadium     ppm     ASTM D5185m     0     0     0     0       Astm D5185m     1     69     64     105     233     2533 <td>Machine Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <td>399020</td> <td>39423</td> <td>38868</td>	Machine Age	hrs	Client Info		399020	39423	38868
Sample Status     NORMAL     NORMAL     NORMAL     NORMAL       CONTAMINATION     method     limit/base     current     history1     history1       Water     WC Method     >0.1     NEG     NEG     NEG       Wear METALS     method     limit/base     current     history1     history1       Iron     ppm     ASTM 05185m     >5     0     0     <1	Sample Status     NORMAL     NORMAL <thi< td=""><td>Oil Age</td><td>hrs</td><td>Client Info</td><td></td><td>71821</td><td>39423</td><td>38868</td></thi<>	Oil Age	hrs	Client Info		71821	39423	38868
CONTAMINATION     method     limit/base     current     history1     history       Water     WC Method     >0.1     NEG     NEG     NEG       Wear     ppm     ASTM D5185m     >200     5     8     8       Chromium     ppm     ASTM D5185m     >5     0     0     <1	CONTAMINATION     method     imit/base     current     history1     hist       Water     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     hist       Iron     ppm     ASTM 05185m     >200     5     8     8     8       Chromium     ppm     ASTM 05185m     >5     0     0     <1	Oil Changed		Client Info		Changed	N/A	Changed
Water     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history1       Iron     ppm     ASTM 05185m     >200     5     8     8       Chromium     ppm     ASTM 05185m     >5     0     0     0       Nickel     ppm     ASTM 05185m     >5     0     0     0       Silver     ppm     ASTM 05185m     >25     <1	Water     WC Method     >0.1     NEG     NEG     NEG     NEG       Wear     ppm     ASTM D5185m     >200     5     8     8       Chromium     ppm     ASTM D5185m     >5     0     0     <1       Nickel     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Astm D5185m     >7     0     0     0     1       Lead     ppm     ASTM D5185m     >225     <1     0     <1       Lead     ppm     ASTM D5185m     >225     <1     0     <1     <1       Vanadium     ppm     ASTM D5185m     >225     <1     0     0     0     0     0       Vanadium     ppm     ASTM D5185m     >225     <1     0     0     0       Copper     ppm     ASTM D5185m     22     2     3     4       Barium     ppm     ASTM D5185m	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS     method     limit/base     current     history1     history1       Iron     ppm     ASTM D5185m     >200     5     8     8       Chromium     ppm     ASTM D5185m     >5     0     0     0       Nickel     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     >25     <1	WEAR METALS     method     limit/base     current     history1     hist       Iron     ppm     ASTM D5185m     >50     0     0     <1	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Iron     ppm     ASTM D5185m     >200     5     8     8       Chromium     ppm     ASTM D5185m     >5     0     0     <1	Iron     ppm     ASTM D5185m     >200     5     8     8       Chromium     ppm     ASTM D5185m     >5     0     0     <1	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium     ppm     ASTM D5185m     >5     0     0     <1       Nickel     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Astm D5185m     >7     0     0     0     11       Lead     ppm     ASTM D5185m     >225     51     70     191       Tin     ppm     ASTM D5185m     >10     <1	Chromium     ppm     ASTM D5185m     >5     0     0     <1       Nickel     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Aluminum     ppm     ASTM D5185m     >25     <1	WEAR METAI	_S	method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     >5     0     0     0       Titanium     ppm     ASTM D5185m     >7     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Aluminum     ppm     ASTM D5185m     >25     <1	Nickel     ppm     ASTM D5185m     >55     0     0     0       Titanium     ppm     ASTM D5185m     >7     0     0     0       Silver     ppm     ASTM D5185m     >77     0     0     0       Aluminum     ppm     ASTM D5185m     >225     <1	Iron	ppm	ASTM D5185m	>200	5	8	8
Nickel     ppm     ASTM D5185m     >5     0     0     0       Titanium     ppm     ASTM D5185m     >7     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Aluminum     ppm     ASTM D5185m     >225     <1	Nickel     ppm     ASTM D5185m     >5     0     0     0       Titanium     ppm     ASTM D5185m     >7     0     0     0       Silver     ppm     ASTM D5185m     >25     <1	Chromium	ppm	ASTM D5185m	>5	0	0	<1
Titanium     ppm     ASTM D5185m     >7     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Aluminum     ppm     ASTM D5185m     >25     <1	Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Aluminum     ppm     ASTM D5185m     >25     <1	Nickel		ASTM D5185m	>5	0	0	0
Silver     ppm     ASTM D5185m     >7     0     0     0       Aluminum     ppm     ASTM D5185m     >25     <1	Silver     ppm     ASTM D5185m     >7     0     0     0       Aluminum     ppm     ASTM D5185m     >25     <1	Titanium		ASTM D5185m			0	0
Atuminum     ppm     ASTM D5185m     >25     <1     0     <1       Lead     ppm     ASTM D5185m     >45     0     <1	Aluminum     ppm     ASTM D5185m     >25     <1     0     <1       Lead     ppm     ASTM D5185m     >45     0     <1	Silver		ASTM D5185m	>7	0	0	0
Lead     ppm     ASTM D5185m     >45     0     <1     <1       Copper     ppm     ASTM D5185m     >225     51     70     191       Tin     ppm     ASTM D5185m     >10     <1	Lead     ppm     ASTM D5185m     >45     0     <1     <1       Copper     ppm     ASTM D5185m     >225     51     70     191       Tin     ppm     ASTM D5185m     >10     <1	Aluminum		ASTM D5185m	>25	<1		<1
Copper     ppm     ASTM D5185m     >225     51     70     191       Tin     ppm     ASTM D5185m     >10     <1	Copper     ppm     ASTM D5185m     >225     51     70     191       Tin     ppm     ASTM D5185m     >10     <1							<1
Tin     ppm     ASTM D5185m     >10     <1     0     <1       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     2     2     3     4       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     3     5     7       Manganese     ppm     ASTM D5185m     0     3     5     7       Manganese     ppm     ASTM D5185m     1     69     64     105       Calcium     ppm     ASTM D5185m     1194     952     920     920       Zinc     ppm     ASTM D5185m     1281     1122     1110     1118       Sulfur     ppm     ASTM D5185m     125     9     3     3       Sodium     ppm     ASTM D5185m     22     0     3	Tin     ppm     ASTM D5185m     >10     <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     hist       Boron     ppm     ASTM D5185m     2     2     3     4       Barium     ppm     ASTM D5185m     0     3     5     7       Maganese     ppm     ASTM D5185m     0     3     5     7       Magnesium     ppm     ASTM D5185m     1     69     64     105       Calcium     ppm     ASTM D5185m     1131     2513     2533     2593       Phosphorus     ppm     ASTM D5185m     1281     1122     1110     1118       Sulfur     ppm     ASTM D5185m     3811     3847     4590     5639       CONTAMINANTS     method     limit/base     current     hi	Copper		ASTM D5185m	>225	51		
VanadiumppmASTM D5185m000CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history1BoronppmASTM D5185m2234BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0357ManganeseppmASTM D5185m9<1	VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m0000ADDITIVESmethodlimit/basecurrenthistory1histBoronppmASTM D5185m2234BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0357ManganeseppmASTM D5185m9<1			ASTM D5185m	>10			<1
CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1history1BoronppmASTM D5185m2234BariumppmASTM D5185m00000MolybdenumppmASTM D5185m0357ManganeseppmASTM D5185m16964105CalciumppmASTM D5185m16964105CalciumppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1history1SiliconppmASTM D5185m>125933SodiumppmASTM D5185m>20<1	CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1histBoronppmASTM D5185m2234BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0357MarganeseppmASTM D5185m16964105CalciumppmASTM D5185m16964105CalciumppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1histSiliconppmASTM D5185m>125933SodiumppmASTM D5185m>20<1	Vanadium						
BoronppmASTM D5185m2234BariumppmASTM D5185m00000MolybdenumppmASTM D5185m0357ManganeseppmASTM D5185m9<1	Boron     ppm     ASTM D5185m     2     2     3     4       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     3     5     7       Manganese     ppm     ASTM D5185m     9     <1					-		
BariumppmASTM D5185m00000MolybdenumppmASTM D5185m0357ManganeseppmASTM D5185m9<1	BariumppmASTM D5185m00000MolybdenumppmASTM D5185m0357ManganeseppmASTM D5185m9<1	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m0357ManganeseppmASTM D5185m9<1	Molybdenum     ppm     ASTM D5185m     0     3     5     7       Manganese     ppm     ASTM D5185m     9     <1	Boron	ppm	ASTM D5185m	2	2	3	4
ManganeseppmASTM D5185m9<1<1<1<1MagnesiumppmASTM D5185m16964105CalciumppmASTM D5185m3131251325332593PhosphorusppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1history1SiliconppmASTM D5185m>125933SodiumppmASTM D5185m>125933PotassiumppmASTM D5185m>20<1	Manganese     ppm     ASTM D5185m     9     <1     <1     <1       Magnesium     ppm     ASTM D5185m     1     69     64     105       Calcium     ppm     ASTM D5185m     3131     2513     2533     2593       Phosphorus     ppm     ASTM D5185m     1194     952     920     920       Zinc     ppm     ASTM D5185m     1281     1122     1110     1118       Sulfur     ppm     ASTM D5185m     3811     3847     4590     5639       CONTAMINANTS     method     limit/base     current     history1     hist       Silicon     ppm     ASTM D5185m     >125     9     3     3       Sodium     ppm     ASTM D5185m     >20     <1	Barium		ASTM D5185m	0	0	0	0
ManganeseppmASTM D5185m9<1<1<1<1MagnesiumppmASTM D5185m16964105CalciumppmASTM D5185m3131251325332593PhosphorusppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1history1SiliconppmASTM D5185m>125933SodiumppmASTM D5185m>125933PotassiumppmASTM D5185m>20<1	Manganese     ppm     ASTM D5185m     9     <1     <1     <1       Magnesium     ppm     ASTM D5185m     1     69     64     105       Calcium     ppm     ASTM D5185m     3131     2513     2533     2593       Phosphorus     ppm     ASTM D5185m     1194     952     920     920       Zinc     ppm     ASTM D5185m     1281     1122     1110     1118       Sulfur     ppm     ASTM D5185m     3811     3847     4590     5639       CONTAMINANTS     method     limit/base     current     history1     hist       Silicon     ppm     ASTM D5185m     >125     9     3     3       Sodium     ppm     ASTM D5185m     >20     <1	Molybdenum	ppm	ASTM D5185m	0	3	5	7
MagnesiumppmASTM D5185m16964105CalciumppmASTM D5185m3131251325332593PhosphorusppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1historySiliconppmASTM D5185m>125933SodiumppmASTM D5185m>20<1	MagnesiumppmASTM D5185m16964105CalciumppmASTM D5185m3131251325332593PhosphorusppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1histSiliconppmASTM D5185m>125933SodiumppmASTM D5185m>20<1			ASTM D5185m	9		<1	<1
CalciumppmASTM D5185m3131251325332593PhosphorusppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1historySiliconppmASTM D5185m>125933SodiumppmASTM D5185m>125933PotassiumppmASTM D5185m>20<1	CalciumppmASTM D5185m3131251325332593PhosphorusppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1histSiliconppmASTM D5185m>125933SodiumppmASTM D5185m>20<1	-				69	64	105
PhosphorusppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1historySiliconppmASTM D5185m>125933SodiumppmASTM D5185m>125933PotassiumppmASTM D5185m>20<1	PhosphorusppmASTM D5185m1194952920920ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1histSiliconppmASTM D5185m>125933SodiumppmASTM D5185m203PotassiumppmASTM D5185m>20<1	•						
ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1historySiliconppmASTM D5185m>125933SodiumppmASTM D5185m>125933PotassiumppmASTM D5185m>20<1	ZincppmASTM D5185m1281112211101118SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1histSiliconppmASTM D5185m>125933SodiumppmASTM D5185m203PotassiumppmASTM D5185m20<1							
SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1history1SiliconppmASTM D5185m>125933SodiumppmASTM D5185m203PotassiumppmASTM D5185m>20<1	SulfurppmASTM D5185m3811384745905639CONTAMINANTSmethodlimit/basecurrenthistory1histSiliconppmASTM D5185m>125933SodiumppmASTM D5185m>20<1							
SiliconppmASTM D5185m>125933SodiumppmASTM D5185m203PotassiumppmASTM D5185m>20<1	SiliconppmASTM D5185m>125933SodiumppmASTM D5185m203PotassiumppmASTM D5185m>20<1	-						
SodiumppmASTM D5185m203PotassiumppmASTM D5185m>20<1	SodiumppmASTM D5185m203PotassiumppmASTM D5185m>20<1	CONTAMINA	NTS	method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20<120VISUALmethodlimit/basecurrenthistory1history1White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	PotassiumppmASTM D5185m>20<120VISUALmethodlimit/basecurrenthistory1histWhite Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORGdorscalar*VisualNORMLNORMLNORMLNORFree Waterscalar*Visual>0.1NEGNEGNEG	Silicon	ppm	ASTM D5185m	>125	9	3	3
VISUALmethodlimit/basecurrenthistory1history1White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	VISUALmethodlimit/basecurrenthistory1histWhite Metalscalar*VisualNONENONENONENONYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONAppearancescalar*VisualNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Sodium	ppm	ASTM D5185m		2	0	3
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.1NEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	<1	2	0
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNNEGNEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNORNOREmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualImage: ScalarNEGNEGNEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNNEGNEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Sand/Dirtscalar*VisualNONENONENONENONAppearancescalar*VisualNORMLNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Appearancescalar*VisualNORMLNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.1NEGNEGFree Waterscalar*VisualNEGNEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Odorscalar*VisualNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Emulsified Waterscalar*Visual>0.1NEGNEGFree Waterscalar*VisualMEGNEGNEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Free Water scalar *Visual NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	:17:58) Rev: 1 Submitt	Free Water	scalar	*Visual		NEG	NEG	NEG

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Pm4 )

#### Wear

All component wear rates are normal.

#### Contamination

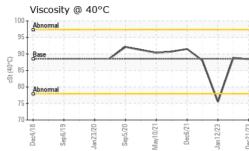
There is no indication of any contamination in the component.

#### Fluid Condition

The condition of the oil is acceptable for the time in service.



# **OIL ANALYSIS REPORT**



	FLUID PROPE	ERTIES	method	limit/base	current	history1	histor	ry2
	Visc @ 40°C	cSt	ASTM D445	88.5	88.4	88.8	75.5	
	SAMPLE IMA	GES	method	limit/base	current	history1	histor	ry2
121 122 123 123	Color				no image	no image	no imag	ge
Sep5/20 May10/21 Dec6/21 Jan12/23 Dec21/23	Bottom				no image	no image	no image	
	GRAPHS							
	Iron (ppm)			10				
	300 - Abnormal			Ę.	0 - Abnormal			
	Dec4/18	Sep 5/20	Dec6/21-		Dec4/180 0	Sep5/20	Dec6/21	
	Aluminum (ppm)			1 	Chromium (pp 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	om)		
	Copper (ppm)	Sep5/20	Dec6/21-	30 25	Smuoro	Sep5/20	Dec6/21	
	500 400 300 400 400 400 400 400 4	20-			0 - Abnormal 0	20	21	
	Dec4/18 Sep6/19 Jan23/20	Sep5/20 May10/21	Dec6/21 Jan12/23	Dec21/23	Dec4/18 Sep6/19 Jan23/20	Sep5/20 May10/21	Dec6/21 Jan12/23	
	Viscosity @ 40°C			350	1			
	95	~~	-	300	phosphorus	~		_
	85 - 80 - Abnormal 75 -		$\setminus$	150 100	0-		ni	
	Dec4/18	Sep 5/20	Dec6/21 Jan12/23	05 Dec21/23		Sep5/20	Dec6/21 Jan12/23 -	
Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - : PCA0069842 : 06057540 : 10823489 : MOB 1	Recieved Diagnos Diagnos	d : 10 ed : 12 tician : Do	Jan 2024 Jan 2024 n Baldridge	3 Kemp Qua	arries - Benton Co Sul	unty Stone - Gr 15100 N Hw phur Springs US 72 Cont	vy 5 s, A 276
liscuss this sample report, o	contact Customer Ser	vice at 1-8	300-237-136	9	aray	vette@benton	countystone	.cor

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