

# **OIL ANALYSIS REPORT**

NORMAL

Sample Rating Trend





Machine Id CATERPILLAR 745D 13408 (S/N 3T606520) Component Transmission (Manual) Fluid

SAMPLE INFORMATION method

TDTO FLUID SAE 30 (--- GAL)

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

#### Fluid Condition

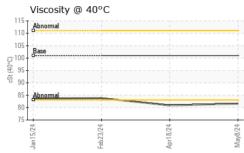
The condition of the fluid is acceptable for the time in service.

Sample Date         Client Info         08 May 2024         18 Apr 2024         23 Feb 2024           Machine Age         hrs         Client Info         2253         1914         1129           Oil Age         hrs         Client Info         1122         766         1129           Oil Changed         Client Info         Changed         Not Changed         Changed           Sample Status         method         limit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM 05185         >5         0         <1         0           Nickel         ppm         ASTM 05185         >7         0         0         0           Silver         ppm         ASTM 05185         >7         0         0         0           Silver         ppm         ASTM 05185         >7         0         0         0           Copper         ppm         ASTM 05185         >7         0         0         0           Copper         ppm	SAMPLE INFORM		method	limit/base	current	nistory i	nistory2
Machine Age         hrs         Client Info         2253         1914         1129           Oil Qanged         Nrs         Client Info         1122         766         1129           Oil Changed         Client Info         1122         766         1129           Sample Status         Imit Nos         Current         NoRMAL         NoRMAL           CONTAMINATION         method         imit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM 05185         >5         0         <1         0           Nickel         ppm         ASTM 05185         >7         0         0         0           Silver         ppm         ASTM 05185         >75         1         <1         1         2           Lead         ppm         ASTM 05185         >7         0         0         0         0           Vanadium         ppm         ASTM 05185         >10         0         0         0         0	Sample Number		Client Info		WC0913320	WC0913248	WC0888134
Dil Age     hrs     Client Info     1122     766     1129       Dil Changed     Client Info     Changed     NorRMAL     NorRMAL     Changed       Sample Status     Client Info     Changed     NorRMAL     NorRMAL     NorRMAL       CONTAMINATION     method     imit/base     current     history1     history2       Water     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >5     0     0     0       Nickel     ppm     ASTM D5185m     >7     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Silver     ppm     ASTM D5185m     >7     0     0     0       Copper     ppm     ASTM D5185m     >25     <1     <1     1       Copper     ppm     ASTM D5185m     >25     <1     <1     0       Variadium     ppm     ASTM D5185m     >10     0     0     0       Cadmium     ppm     ASTM D5185m     7     <1     0     2       Bariu     ppm     ASTM D5185m	Sample Date		Client Info		08 May 2024	18 Apr 2024	23 Feb 2024
Oli Changed     Client Info     Changed     Not Changed     Not Changed     NORMAL       Sample Status     method     limit/base     current     history1     History2       Water     WC Method     >0.1     NEG     NEG     NEG       Wear     MST M05185m     >200     14     10     21       Chromium     ppm     ASTM 05185m     >5     0     0     0       Nickel     ppm     ASTM 05185m     >5     0     0     0       Jamium     ppm     ASTM 05185m     >25     <1     <1     2       Lead     ppm     ASTM 05185m     >25     <1     <1     0       Vanadium     ppm     ASTM 05185m     >10     0     0     0       Avanadium     ppm     ASTM 05185m     >10     0     0     0       Avanadium     ppm     ASTM 05185m     >10     0     0     0       Abardium     ppm     ASTM 05185m     5     4     0     0 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>2253</th> <th>1914</th> <th>1129</th>	Machine Age	hrs	Client Info		2253	1914	1129
Sample Status         NORMAL         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         imit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >5         0         <1         0           Nickel         ppm         ASTM D5185m         >5         0         0         0           Silver         ppm         ASTM D5185m         >7         0         0         0           Itanium         ppm         ASTM D5185m         >7         0         0         0           Copper         ppm         ASTM D5185m         >7         0         0         0           Vanadium         ppm         ASTM D5185m         >10         0         <1         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITVES         method         imit/base         current         history1         history2	Oil Age	hrs	Client Info		1122	766	1129
CONTAMINATION         method         imit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >200         14         10         21           Chromium         ppm         ASTM D5185m         >5         0         <1         0         0           Nickel         ppm         ASTM D5185m         >5         0         0         0         0           Auminum         ppm         ASTM D5185m         >7         0         0         0         0           Aduminum         ppm         ASTM D5185m         >25         <1         <1         1         0         0         0           Cadad         ppm         ASTM D5185m         >25         <1         <1         0	Oil Changed		Client Info		Changed	Not Changd	Changed
WaterWC Method>0.1NEGNEGNEGNEGVEAR METALSmethodImit/basecurrenthistory1history2ironppmASTM D5185m>200141021ChromiumppmASTM D5185m>50<10NickelppmASTM D5185m>5000NickelppmASTM D5185m>7000AluminumppmASTM D5185m>25<1<11CopperppmASTM D5185m>225861010TinppmASTM D5185m>22586100CadmiumppmASTM D5185m>100<100CadmiumppmASTM D5185m00000ASTM D5185m100<1022BaronppmASTM D5185m7<102MolybdenumppmASTM D5185m5440MolybdenumppmASTM D5185m250290030312861ProsphorusppmASTM D5185m105033128611039ZincppmASTM D5185m557558728103ContadiumppmASTM D5185m557558728103SiliconppmASTM D5185m557558728103ContadiumppmASTM D5185m>2000 <t< th=""><th>Sample Status</th><th></th><th></th><th></th><th>NORMAL</th><th>NORMAL</th><th>NORMAL</th></t<>	Sample Status				NORMAL	NORMAL	NORMAL
WaterWC Method>0.1NEGNEGNEGNEGVEAR METALSmethodImit/basecurrenthistory1history2ironppmASTM D5185m>200141021ChromiumppmASTM D5185m>50<10NickelppmASTM D5185m>5000NickelppmASTM D5185m>7000AluminumppmASTM D5185m>25<1<11CopperppmASTM D5185m>225861010TinppmASTM D5185m>22586100CadmiumppmASTM D5185m>100<100CadmiumppmASTM D5185m00000ASTM D5185m100<1022BaronppmASTM D5185m7<102MolybdenumppmASTM D5185m5440MolybdenumppmASTM D5185m250290030312861ProsphorusppmASTM D5185m105033128611039ZincppmASTM D5185m557558728103ContadiumppmASTM D5185m557558728103SiliconppmASTM D5185m557558728103ContadiumppmASTM D5185m>2000 <t< th=""><th>CONTAMINATION</th><th>٧</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	CONTAMINATION	٧	method	limit/base	current	history1	history2
ron         ppm         ASTM D5185m         >200         14         10         21           Chromium         ppm         ASTM D5185m         >5         0         <1         0           Nickel         ppm         ASTM D5185m         >5         0         0         0           Silver         ppm         ASTM D5185m         >7         0         0         0           Aluminum         ppm         ASTM D5185m         >25         <1         <1         2           Lead         ppm         ASTM D5185m         >45         <1         <1         1           Copper         ppm         ASTM D5185m         >10         0         <1         0           Vanadium         ppm         ASTM D5185m         >10         0         0         0           Vanadium         ppm         ASTM D5185m         7         <1         0         2           Barium         ppm         ASTM D5185m         7         <1         0         2           Magnesium         ppm         ASTM D5185m         7         <1         0         2           Barium         ppm         ASTM D5185m         7         <1         <1 <t< th=""><th>Water</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Water						
Dromium         ppm         ASTM D5185m         >5         0         <1	WEAR METALS		method	limit/base	current	history1	history2
NickelppmASTM D5185m>5000TitaniumppmASTM D5185m>7000SilverppmASTM D5185m>7000AluminumppmASTM D5185m>25<1<11LeadppmASTM D5185m>25<1<11CopperppmASTM D5185m>2258610TinppmASTM D5185m>2258610VanadiumppmASTM D5185m>100<10VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m7<102BoronppmASTM D5185m7<102MolybdenumppmASTM D5185m7<1<1<1MaganeseppmASTM D5185m<440PhosphorusppmASTM D5185m<57576CalciumppmASTM D5185m10509489811039SulfurppmASTM D5185m55577SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2StilconppmASTM D5185m>25577SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurren	Iron	ppm	ASTM D5185m	>200	14	10	21
Titanium         ppm         ASTM D5185m         <1	Chromium	ppm	ASTM D5185m	>5	0	<1	0
Silver       ppm       ASTM D5185m       >7       0       0       0         Aluminum       ppm       ASTM D5185m       >25       <1	Nickel	ppm	ASTM D5185m	>5	0	0	0
Aluminum         ppm         ASTM D5185m         >25         <1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead         ppm         ASTM D5185m         >45         <1	Silver	ppm	ASTM D5185m	>7	0	0	0
Copper         ppm         ASTM D5185m         >225         8         6         10           Tin         ppm         ASTM D5185m         >10         0         <1         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         7         <1         0         2           Molybdenum         ppm         ASTM D5185m         7         <1         0         2           Maganese         ppm         ASTM D5185m         7         <1         <1         <1           Maganese         ppm         ASTM D5185m         1050         948         981         1039           Zinc         ppm         ASTM D5185m         1050         948         981         1039           Zinc         ppm         ASTM D5185m         1075         1147         1162         1190           Sulfur         ppm         ASTM D5185m         >125         5	Aluminum	ppm	ASTM D5185m	>25	<1	<1	2
Tin         ppm         ASTM D5185m         >10         0         <1	Lead	ppm	ASTM D5185m	>45	<1	<1	1
VanadiumppmASTM D5185m000CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m7052BariumppmASTM D5185m7<102MolybdenumppmASTM D5185m7<102MolybdenumppmASTM D5185m5440MaganeseppmASTM D5185m<1<1<1<1MagnesiumppmASTM D5185m2650290030312861PhosphorusppmASTM D5185m10509489811039ZincppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125577SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONESard/Dirtscalar*VisualNONENONENONENONESard/Dirtscalar*VisualNONE <td< th=""><th>Copper</th><td>ppm</td><td>ASTM D5185m</td><td>&gt;225</td><th>8</th><td>6</td><td>10</td></td<>	Copper	ppm	ASTM D5185m	>225	8	6	10
CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m37052BariumppmASTM D5185m7<102MolybdenumppmASTM D5185m7<102MagneseeppmASTM D5185m<1<1<1<1MagnesiumppmASTM D5185m4057576CalciumppmASTM D5185m10509489811039PhosphorusppmASTM D5185m10509489811039ZincppmASTM D5185m1075114711621190SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearance<	Tin	ppm	ASTM D5185m	>10	0	<1	0
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m37052BariumppmASTM D5185m7<102MolybdenumppmASTM D5185m5440ManganeseppmASTM D5185m<1<1<1<1MagnesiumppmASTM D5185m4057576CalciumppmASTM D5185m2650290030312861PhosphorusppmASTM D5185m10509489811039ZincppmASTM D5185m1075114711621190SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEOdorscalar*VisualNONENONENONENONENONE <th>Vanadium</th> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>0</td> <td>0</td>	Vanadium	ppm	ASTM D5185m		0	0	0
BoronppmASTM D5185m37052BariumppmASTM D5185m7<102MolybdenumppmASTM D5185m5440ManganeseppmASTM D5185m<1<1<1<1MagnesiumppmASTM D5185m4057576CalciumppmASTM D5185m2650290030312861PhosphorusppmASTM D5185m10509489811039ZincppmASTM D5185m1075114711621190SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORML <t< th=""><th>Cadmium</th><td>ppm</td><td>ASTM D5185m</td><td></td><th>0</th><td>0</td><td>0</td></t<>	Cadmium	ppm	ASTM D5185m		0	0	0
BariumppmASTM D5185m7<1	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m5440ManganesseppmASTM D5185m<1<1<1<1MagnesiumppmASTM D5185m4057576CalciumppmASTM D5185m2650290030312861PhosphorusppmASTM D5185m10509489811039ZincppmASTM D5185m1075114711621190SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORML </th <th>Boron</th> <th>ppm</th> <th>ASTM D5185m</th> <th>37</th> <th>0</th> <th>5</th> <th>2</th>	Boron	ppm	ASTM D5185m	37	0	5	2
ManganeseppmASTW D5185m<1	Barium	ppm	ASTM D5185m	7	<1	0	2
MagnesiumppmASTM D5185m4057576CalciumppmASTM D5185m2650290030312861PhosphorusppmASTM D5185m10509489811039ZincppmASTM D5185m1075114711621190SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Molybdenum	ppm	ASTM D5185m	5	4	4	0
Calciumppm ppmASTM D5185m2650290030312861PhosphorusppmASTM D5185m10509489811039ZincppmASTM D5185m1075114711621190SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONESodurscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLCodorscalar*VisualNORML	Manganese	ppm	ASTM D5185m		<1	<1	<1
PhosphorusppmASTM D5185m10509489811039ZincppmASTM D5185m1075114711621190SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m>125557SodiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Magnesium	ppm	ASTM D5185m	40	57	57	6
ZincppmASTM D5185m1075114711621190SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m324PotassiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAstrictscalar*VisualNONENONENONENONEAstrictscalar*VisualNONENONENONENONEOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Calcium	ppm	ASTM D5185m	2650	2900	3031	2861
SulfurppmASTM D5185m5750597758728103CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m>20000PotassiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Phosphorus	ppm	ASTM D5185m	1050	948	981	1039
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125557SodiumppmASTM D5185m324PotassiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Zinc	ppm	ASTM D5185m	1075	1147	1162	1190
SiliconppmASTM D5185m>125557SodiumppmASTM D5185m324PotassiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Sulfur	ppm	ASTM D5185m	5750	5977	5872	8103
SodiumppmASTM D5185m324PotassiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Silicon	ppm	ASTM D5185m	>125	5	5	7
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG	Sodium	ppm	ASTM D5185m		3	2	4
White Metal       scalar       *Visual       NONE       NONE       NONE       NONE         Yellow Metal       scalar       *Visual       NONE       NONE       NONE       NONE       NONE         Precipitate       scalar       *Visual       NONE       NONE       NONE       NONE       NONE         Silt       scalar       *Visual       NONE       NONE       NONE       NONE         Debris       scalar       *Visual       NONE       NONE       NONE       NONE         Sand/Dirt       scalar       *Visual       NONE       NONE       NONE       NONE         Appearance       scalar       *Visual       NORML       NORML       NORML       NORML         Odor       scalar       *Visual       NORML       NORML       NORML       NORML         Emulsified Water       scalar       *Visual       >0.1       NEG       NEG       NEG	Potassium	ppm	ASTM D5185m	>20	0	0	0
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGFree Waterscalar*VisualNEGNEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGFree Waterscalar*VisualNEGNEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGFree Waterscalar*VisualNEGNEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualImage: ScalarNEGNEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor         scalar         *Visual         NORML         NORML         NORML         NORML         NORML           Emulsified Water         scalar         *Visual         >0.1         NEG         NEG         NEG           Free Water         scalar         *Visual         MEG         NEG         NEG         NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water     scalar     *Visual     >0.1     NEG     NEG       Free Water     scalar     *Visual     NEG     NEG     NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	:29:12) Rev: 1				Contact/Loc	ation: MIKE WY	ATT - TRANEW

Report Id: TRANEW [WUSCAR] 06180539 (Generated: 05/16/2024 17:29:12) Rev: 1



## **OIL ANALYSIS REPORT**



FLUID PROPERTIES	s method	limit/base	current	history1	histo
Visc @ 40°C cS	St ASTM D445	101	81.6	80.9	83.8
SAMPLE IMAGES	method	limit/base	current	history1	histo
Color			no image	no image	no ima
Bottom			no image	no image	no ima
GRAPHS Ferrous Alloys					
22 20 18 chromium					
16 16					
E 12 10					
8 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					
2					
Jan 15,24 Feb23/24	Apr18/24	May8/24			
Non-ferrous Metals					
9 copper					
7-6-					
E. 5- 4-					
3 - 2					
		and and and			
Jan 15/24 Feb23/24	Apr18/24	May8/24			
Viscosity @ 40°C					
110 - Abnormal					
105 - Base 100 -					
95 - 3 95 -					
90-					
85 Abnormal					
Jan 15/24					
	Apr18/24	May8/24			



 Unique Number
 : 11031865
 Diagnosed
 : 16 May 2024 - Wes Davis

 Certificate 12367
 Test Package
 : CONST

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

 \* - 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)

PO DRAWER 1578 NEW BERN, NC US 28563 Contact: MIKE WYATT mwyatt@traderconstruction.com T: (252)633-1399 M 106:2012) F: (252)638-4871

Report Id: TRANEW [WUSCAR] 06180539 (Generated: 05/16/2024 17:29:12) Rev: 1

Contact/Location: MIKE WYATT - TRANEW

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