

## **OIL ANALYSIS REPORT**

## NORMAL

### Machine Id

**RANDY W DECK** 

#### Component Genset

Fluid CHEVRON DELO 400 MULTIGRADE 15W40 (--- QTS)

#### 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.

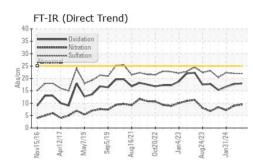
## Fluid Condition

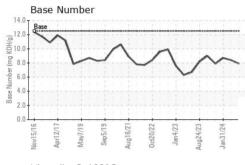
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

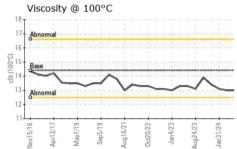
Sample NumberClient InfoVC0922389WC0759610WC0759630Sample DateClient Info22 May 202429 Mar 202431 Jan 2024Machine AgehrsClient Info854280717624Ol AgehrsClient InfoNAChangedChangedSample Statusclient InfoNAChangedNCRMALCONTAMINATIONWC Method>4.0<1.0<1.0GONTAMINATIONWC Method>4.0<1.0<1.0WaterWC Method>4.0<1.0<1.0WaterWC Method>0.1NEGNEGNEGGlycolWC Method>4.0<1.0<1.0<1.0WaterMC Method>4.0<1.0<1.0<1.0NickelppmASTM 05888>50696ChromiumppmASTM 05888>50696NickelppmASTM 05888>500<1.0<1.0NickelppmASTM 05888>500<1.0<1.0NickelppmASTM 05888>17<101CopperppmASTM 05888>17<101AuminumppmASTM 05888>17<101CopperppmASTM 05888>17<101CopperppmASTM 05888>17<101AuminumppmASTM 05888>17<101 <t< th=""><th>SAMPLE INFORM</th><th>IATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Date     Client Info     22 May 2024     29 Mar 2024     31 Jan 2024       Machine Age     hrs     Client Info     8542     8071     7624       Oil Age     hrs     Client Info     500     500     500       Oil Age     Client Info     NORMAL     NORMAL     NORMAL     NORMAL       Sample Status     Client Info     NOR     4.0     <1.0     <1.0     <1.0       CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >0.1     NEG     NEG     NEG       Glycol     WC Method     S0.1     NEG     NEG     NEG       Machine     ppm     ASTM D5185m     >50     6     9     6       Chromium     ppm     ASTM D5185m     >4     0     <1     1       Silver     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     >12     3     <1     1       Silver <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>WC0922389</th> <th>WC0759610</th> <th>WC0759636</th>	Sample Number		Client Info		WC0922389	WC0759610	WC0759636
Oil Age     hrs     Client Info     500     500     500       Oil Changed     Client Info     N/A     Changed     Changed       Sample Status     Imitbase     current     history1     history1       CONTAMINATION     method     imitbase     current     history1     history2       Fuel     WC Method     >4.0     <1.0     <1.0     <1.0       Water     WC Method     >0.1     NEG     NEG     NEG       Water     WC Method     >0     <10     <10     <10       Water     MC Method     >0     <10     <10     <10       Water     ppm     ASTM DS185m     >50     6     9     6       Chromium     ppm     ASTM DS185m     >2     0     <1     1       Nickel     ppm     ASTM DS185m     >5     0     0     0       Auminum     ppm     ASTM DS185m     >15     0     <1     1       Copper     ppm     ASTM DS185m     0	Sample Date		Client Info		22 May 2024	29 Mar 2024	31 Jan 2024
Oil Changed Client Info N/A Changed Changed Changed   Sample Status Imaged Imaged NORMAL NORMAL NORMAL NORMAL   CONTAMINATION method limit/base current history1 history2   Fuel WC Method >4.0 <1.0 <1.0 <1.0 <1.0   Water WC Method >0.1 NEG NEG NEG   Glycol WC Method >0.1 NEG NEG NEG   WEAR METALS method Imit/base current history1 nistory2   Iron ppm ASTM D5185m >50 6 9 6   Chromium ppm ASTM D5185m >2 0 <1 1   Silver ppm ASTM D5185m >5 0 0 0   Aluminum ppm ASTM D5185m >12 3 5 5   Lead ppm ASTM D5185m >12 3 5 5   Lead ppm ASTM D5185m >12 3 5 5   Lead ppm ASTM D5185m >15 0 <1 1   Vandnium ppm ASTM D5185m <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>8542</th> <th>8071</th> <th>7624</th>	Machine Age	hrs	Client Info		8542	8071	7624
Sample Status     method     imit/base     current     NORMAL     NORMAL       CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >4.0     <1.0     <1.0     <1.0       Water     WC Method     >0.1     NEG     NEG     NEG       Glycol     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM 05165m     >20     6     9     6       Chromium     ppm     ASTM 05165m     >2     0     <1     1       Nickel     ppm     ASTM 05185m     >5     0     0     0       Auminum     ppm     ASTM 05185m     >17     <1     0     1     0       Copper     ppm     ASTM 05185m     >17     <1     0     0     0       Cadmium     ppm     ASTM 05185m     >16     0     <1	Oil Age	hrs	Client Info		500	500	500
CONTAMINATION     method     limit/base     current     history1     history2       Fuel     WC Method     >0.1     NEG     NEG     NEG       Glycol     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5165m     >50     6     9     6       Chromium     ppm     ASTM D5165m     >20     <1     0       Nickel     ppm     ASTM D5165m     >20     <1     1       Silver     ppm     ASTM D5165m     >5     0     0     0       Aluminum     ppm     ASTM D5165m     >17     <1     0     1     1       Copper     ppm     ASTM D5165m     >15     0     <1     0     1       Vanadium     ppm     ASTM D5165m     151     188     264     385       Barium     ppm     ASTM D5165m     0     03     124     134 </th <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>Changed</th> <th>Changed</th>	Oil Changed		Client Info		N/A	Changed	Changed
Fuel     WC Method     >4.0     <1.0	Sample Status				NORMAL	NORMAL	NORMAL
Water     WC Method     >0.1     NEG     NEG     NEG     NEG       Glycol     WC Method     Imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     6     9     6       Chromium     ppm     ASTM D5185m     >2     0     <1     0       Nickel     ppm     ASTM D5185m     >2     0     <1     <1       Silver     ppm     ASTM D5185m     >2     0     <1     <1       Silver     ppm     ASTM D5185m     >2     0     <1     1       Copper     ppm     ASTM D5185m     >17     <1     0     1       Copper     ppm     ASTM D5185m     >17     <1     0     1       Vanadium     ppm     ASTM D5185m     >17     <1     0     1       Vanadium     ppm     ASTM D5185m     151     188     264     385       Barium     ppm     ASTM D5185m     151     188     264<	CONTAMINATION	١	method	limit/base	current	history1	history2
Glycol     WC Method     Imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     6     9     6       Chromium     ppm     ASTM D5185m     >4     0     <1     0       Nickel     ppm     ASTM D5185m     >2     0     <1     <1       Titanium     ppm     ASTM D5185m     >2     0     <10     0       Aluminum     ppm     ASTM D5185m     >2     0     <1     <1       Copper     ppm     ASTM D5185m     >70     <1     0     1       Copper     ppm     ASTM D5185m     >70     <1     0     1       Vanadium     ppm     ASTM D5185m     >70     <1     0     0       Cadmium     ppm     ASTM D5185m     >70     <1     0     0       Cadmium     ppm     ASTM D5185m     0     <1     0     0       Cadmium     ppm     ASTM D5185m     0.4     0     0	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     6     9     6       Chromium     ppm     ASTM D5185m     >4     0     <1     0       Nickel     ppm     ASTM D5185m     >2     0     <1     <1       Titanium     ppm     ASTM D5185m     >5     0     0     0       Aluminum     ppm     ASTM D5185m     >17     <1     0     1       Copper     ppm     ASTM D5185m     >17     <1     0     1       Copper     ppm     ASTM D5185m     >15     0     <1     1       Vanadium     ppm     ASTM D5185m     15     0     <1     0       Cadmium     ppm     ASTM D5185m     151     188     264     385       Barium     ppm     ASTM D5185m     0.4     0     0     0       Molybdenum     ppm     ASTM D5185m     0.4     1665 <td< th=""><th>Water</th><th></th><th>WC Method</th><th>&gt;0.1</th><th>NEG</th><th>NEG</th><th>NEG</th></td<>	Water		WC Method	>0.1	NEG	NEG	NEG
Iron     ppm     ASTM D5185m     >50     6     9     6       Chromium     ppm     ASTM D5185m     >4     0     <1     0       Nickel     ppm     ASTM D5185m     >2     0     <1     <1       Titanium     ppm     ASTM D5185m     >5     0     0     0       Aluminum     ppm     ASTM D5185m     >12     3     5     5       Lead     ppm     ASTM D5185m     >17     <1     0     1       Copper     ppm     ASTM D5185m     >17     <1     0     1       Copper     ppm     ASTM D5185m     >70     <1     2     <1       Vanadium     ppm     ASTM D5185m     >10     <1     0     0       Cadmium     ppm     ASTM D5185m     0.4     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0.4     0     0	Glycol		WC Method		NEG	NEG	NEG
Chromium     ppm     ASTM D5185m     >4     0     <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     >2     0     <1	Iron	ppm	ASTM D5185m	>50	6	9	6
Titanium     ppm     ASTM D5185m     3     3     <1	Chromium	ppm	ASTM D5185m	>4	0	<1	0
Silver     ppm     ASTM D5185m     >5     0     0     0       Aluminum     ppm     ASTM D5185m     >12     3     5     5       Lead     ppm     ASTM D5185m     >17     <1	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum     ppm     ASTM D5185m     >12     3     5     5       Lead     ppm     ASTM D5185m     >17     <1     0     1       Copper     ppm     ASTM D5185m     >70     <1     2     <1       Tin     ppm     ASTM D5185m     >15     0     <1     1       Vanadium     ppm     ASTM D5185m     >15     0     <1     0       Cadmium     ppm     ASTM D5185m     151     188     264     385       Boron     ppm     ASTM D5185m     0.4     0     0     0       Molybdenum     ppm     ASTM D5185m     0.4     0     0     0       Marganese     ppm     ASTM D5185m     0.4     0     0     0       Marganesum     ppm     ASTM D5185m     0.4     0     0     0       Marganesum     ppm     ASTM D5185m     0.46     16655     17.01     17.88       Phosphorus     ppm     ASTM D5185m     012     3110<	Titanium	ppm	ASTM D5185m		3	3	<1
Lead     ppm     ASTM D5185m     >17     <1	Silver	ppm	ASTM D5185m	>5	0	0	0
Copper     ppm     ASTM D5185m     >70     <1	Aluminum	ppm	ASTM D5185m	>12	3	5	5
Tin     ppm     ASTM D5185m     >15     0     <1	Lead	ppm	ASTM D5185m	>17	<1	0	1
Vanadium     ppm     ASTM D5185m     0     <1	Copper	ppm	ASTM D5185m	>70	<1	2	<1
Cadmium     ppm     ASTM D5185m     0     <1	Tin	ppm	ASTM D5185m	>15	0	<1	1
ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     151     188     264     385       Barium     ppm     ASTM D5185m     0.4     0     0     0       Molybdenum     ppm     ASTM D5185m     250     103     124     134       Manganese     ppm     ASTM D5185m     250     103     124     134       Magnesium     ppm     ASTM D5185m     0     632     674     759       Calcium     ppm     ASTM D5185m     0     632     674     759       Calcium     ppm     ASTM D5185m     0.43     773     818     862       Zinc     ppm     ASTM D5185m     943     864     939     1074       Sulfur     ppm     ASTM D5185m     5012     3110     3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Solium     ppm     ASTM D5185m <t< th=""><th>Vanadium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>&lt;1</th><th>0</th></t<>	Vanadium	ppm	ASTM D5185m		0	<1	0
Boron     ppm     ASTM D5185m     151     188     264     385       Barium     ppm     ASTM D5185m     0.4     0     0     0       Molybdenum     ppm     ASTM D5185m     250     103     124     134       Manganese     ppm     ASTM D5185m     250     103     124     134       Magnesium     ppm     ASTM D5185m     0     632     674     759       Calcium     ppm     ASTM D5185m     0     632     674     759       Calcium     ppm     ASTM D5185m     0.43     773     818     862       Zinc     ppm     ASTM D5185m     943     864     939     1074       Sulfur     ppm     ASTM D5185m     5012     3110     3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >20     <1     3     <1       INFRA-RED     method     limit/base	Cadmium	ppm	ASTM D5185m		0	<1	0
Barium     ppm     ASTM D5185m     0.4     0     0     0       Molybdenum     ppm     ASTM D5185m     250     103     124     134       Manganese     ppm     ASTM D5185m     250     103     124     134       Magnesium     ppm     ASTM D5185m     0     632     674     759       Calcium     ppm     ASTM D5185m     0     632     674     759       Calcium     ppm     ASTM D5185m     2046     1665     1701     1788       Phosphorus     ppm     ASTM D5185m     1043     773     818     862       Zinc     ppm     ASTM D5185m     943     864     939     1074       Sulfur     ppm     ASTM D5185m     5012     3110     3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >20     <1     3     <1       Potassium     ppm     ASTM D5185m	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185m     250     103     124     134       Manganese     ppm     ASTM D5185m      <1     <1     <1       Magnesium     ppm     ASTM D5185m     0     632     674     759       Calcium     ppm     ASTM D5185m     2046     1665     1701     1788       Phosphorus     ppm     ASTM D5185m     1043     773     818     862       Zinc     ppm     ASTM D5185m     943     864     939     1074       Sulfur     ppm     ASTM D5185m     5012     3110     3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     0     7     6       Sodium     ppm     ASTM D5185m     >20     <1     3     <1       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7624 <td< th=""><th></th><th></th><th></th><th></th><th>100</th><th></th><th></th></td<>					100		
Marganese     ppm     ASTM D5185m     <1	Boron	ppm	ASTM D5185m	151	188	264	385
Magnesium     ppm     ASTM D5185m     0     632     674     759       Calcium     ppm     ASTM D5185m     2046     1665     1701     1788       Phosphorus     ppm     ASTM D5185m     1043     773     818     862       Zinc     ppm     ASTM D5185m     943     864     939     1074       Sulfur     ppm     ASTM D5185m     5012     3110     3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     0     7     6       Sodium     ppm     ASTM D5185m     >20     <1     3     <1       Potassium     ppm     ASTM D5185m     >20     <1     3     <1       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     0.3     0.1     0.1       Nitration     Abs/.1mm     *ASTM D762     >20							
Calcium     ppm     ASTM D5185m     2046     1665     1701     1788       Phosphorus     ppm     ASTM D5185m     1043 <b>773</b> 818     862       Zinc     ppm     ASTM D5185m     943 <b>864</b> 939     1074       Sulfur     ppm     ASTM D5185m     5012 <b>3110</b> 3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     0     7     6       Sodium     ppm     ASTM D5185m     >20     <1     3     <1       Potassium     ppm     ASTM D5185m     >20     <1     3     <1       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     0.3     0.1     0.1       Nitration     Abs/tmm<*ASTM D7415     >30     22.0     22.0     22.3       FLUID DEGRADATION     method     limit/base     current <th>Barium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>0.4</th> <th>0</th> <th>0</th> <th>0</th>	Barium	ppm	ASTM D5185m	0.4	0	0	0
Phosphorus     ppm     ASTM D5185m     1043     773     818     862       Zinc     ppm     ASTM D5185m     943     864     939     1074       Sulfur     ppm     ASTM D5185m     943     864     939     1074       Sulfur     ppm     ASTM D5185m     5012     3110     3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     0     7     6       Sodium     ppm     ASTM D5185m     >20     <1     3     <1       Potassium     ppm     ASTM D5185m     >20     <1     3     <1       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     0.3     0.1     0.1       Nitration     Abs/rm< *ASTM D7624     >20     9.5     9.0     7.2       Sulfation     Abs/lim     *ASTM D7415     >30     22.0	Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0.4	0 103	0 124	0 134
Zinc     ppm     ASTM D5185m     943     864     939     1074       Sulfur     ppm     ASTM D5185m     5012     3110     3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     0     7     6       Sodium     ppm     ASTM D5185m     >20     <1     3     <1       Potassium     ppm     ASTM D5185m     >20     <1     3     <1       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     0.3     0.1     0.1       Nitration     Abs/cm     *ASTM D7624     >20     9.5     9.0     7.2       Sulfation     Abs/tmm     *ASTM D7415     >30     22.0     22.0     22.3       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.tmm     *ASTM D7414     >25	Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0.4 250	0 103 <1	0 124 <1	0 134 <1
Sulfur     ppm     ASTM D5185m     5012     3110     3069     3132       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     0     7     6       Sodium     ppm     ASTM D5185m     >25     0     7     6       Sodium     ppm     ASTM D5185m     >20     <1     3     <1       Potassium     ppm     ASTM D5185m     >20     <1	Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.4 250 0	0 103 <1 632	0 124 <1 674	0 134 <1 759
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25076SodiumppmASTM D5185m27<1PotassiumppmASTM D5185m>20<13<1INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D78440.30.10.1NitrationAbs/cm*ASTM D7624>209.59.07.2SulfationAbs/.tmm*ASTM D7415>3022.022.022.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.tmm*ASTM D7414>2518.017.716.7	Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.4 250 0 2046	0 103 <1 632 1665	0 124 <1 674 1701	0 134 <1 759 1788
Silicon     ppm     ASTM D5185m     >25     0     7     6       Sodium     ppm     ASTM D5185m     2     7     <1	Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043	0 103 <1 632 1665 773	0 124 <1 674 1701 818	0 134 <1 759 1788 862
Sodium     ppm     ASTM D5185m     2     7     <1	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943	0 103 <1 632 1665 773 864	0 124 <1 674 1701 818 939	0 134 <1 759 1788 862 1074
Potassium     ppm     ASTM D5185m     >20     <1	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943 5012	0 103 <1 632 1665 773 864 3110	0 124 <1 674 1701 818 939 3069	0 134 <1 759 1788 862 1074 3132
INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     0.3     0.1     0.1       Nitration     Abs/cm     *ASTM D7624     >20     9.5     9.0     7.2       Sulfation     Abs/tmm     *ASTM D7415     >30     22.0     22.3     22.3       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.tmm     *ASTM D7414     >25     18.0     17.7     16.7	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943 5012 <b>limit/base</b>	0 103 <1 632 1665 773 864 3110 current	0 124 <1 674 1701 818 939 3069 history1	0 134 <1 759 1788 862 1074 3132 history2
Soot %     %     *ASTM D7844     0.3     0.1     0.1       Nitration     Abs/cm     *ASTM D7624     >20     9.5     9.0     7.2       Sulfation     Abs/.1mm     *ASTM D7415     >30     22.0     22.0     22.3       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     18.0     17.7     16.7	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943 5012 <b>limit/base</b>	0 103 <1 632 1665 773 864 3110 current 0	0 124 <1 674 1701 818 939 3069 history1 7	0 134 <1 759 1788 862 1074 3132 history2 6
Nitration     Abs/cm     *ASTM D7624     >20     9.5     9.0     7.2       Sulfation     Abs/.1mm     *ASTM D7415     >30     22.0     22.0     22.3       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     18.0     17.7     16.7	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	0.4 250 0 2046 1043 943 5012 limit/base >25	0 103 <1 632 1665 773 864 3110 current 0 2	0 124 <1 674 1701 818 939 3069 history1 7 7	0 134 <1 759 1788 862 1074 3132 history2 6 <1
Sulfation     Abs/.1mm     *ASTM D7415     >30     22.0     22.0     22.3       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     18.0     17.7     16.7	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943 5012 <b>limit/base</b> >25 >20	0 103 <1 632 1665 773 864 3110 current 0 2 <1	0 124 <1 674 1701 818 939 3069 history1 7 7 7 3	0 134 <1 759 1788 862 1074 3132 history2 6 <1 <1
FLUID DEGRADATION method limit/base current history1 history2   Oxidation Abs/.1mm *ASTM D7414 >25 18.0 17.7 16.7	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943 5012 <b>limit/base</b> >25 >20	0 103 <1 632 1665 773 864 3110 current 0 2 <1 current	0 124 <1 674 1701 818 939 3069 history1 7 7 3 8	0 134 <1 759 1788 862 1074 3132 history2 6 <1 <1 <1 history2
Oxidation Abs/.1mm *ASTM D7414 >25 18.0 17.7 16.7	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943 5012 limit/base >25 >20 limit/base	0 103 <1 632 1665 773 864 3110 current 0 2 <1 current 0.3	0 124 <1 674 1701 818 939 3069 history1 7 7 7 3 3 history1 0.1	0 134 <1 759 1788 862 1074 3132 history2 6 <1 <1 <1 history2 0.1
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943 5012 <b>limit/base</b> >25 >20 <b>limit/base</b>	0 103 <1 632 1665 773 864 3110 current 0 2 <1 current 0.3 9.5	0 124 <1 674 1701 818 939 3069 history1 7 7 7 3 3 history1 0.1 9.0	0 134 <1 759 1788 862 1074 3132 history2 6 <1 <1 <1 history2 0.1 7.2
Base Number (BN)     mg KOH/g     ASTM D2896     12.5     7.9     8.4     8.7	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0.4 250 0 2046 1043 943 5012 <i>limit/base</i> >25 >20 <i>limit/base</i> >20	0 103 <1 632 1665 773 864 3110 <u>current</u> 0 2 <1 <u>current</u> 0.3 9.5 22.0	0 124 <1 674 1701 818 939 3069 history1 7 7 7 3 3 history1 0.1 9.0 22.0	0 134 <1 759 1788 862 1074 3132 history2 6 <1 <1 history2 0.1 7.2 22.3
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	0.4 250 0 2046 1043 943 5012 <i>limit/base</i> >20 <i>limit/base</i> >20 >30	0 103 <1 632 1665 773 864 3110 current 0 2 <1 current 0.3 9.5 22.0 current	0 124 <1 674 1701 818 939 3069 history1 7 7 7 3 3 history1 0.1 9.0 22.0 history1	0 134 <1 759 1788 862 1074 3132 history2 6 <1 <1 <1 history2 0.1 7.2 22.3 history2



# **OIL ANALYSIS REPORT**



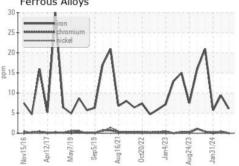


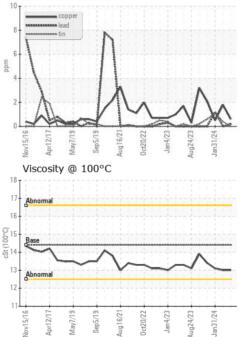


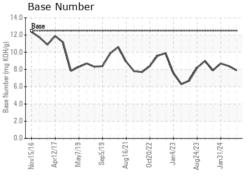
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	ΓIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	13.0	13.1
CDADUS						

Ferrous Alloys

Non-ferrous Metals







**ASSOCIATED TERMINALS - CRANE** 

CONVENT, LA US 70723 Contact: GREG JOSEY gjosey@associatedterminals.com T:

Lab Number : 06198954 Tested : 05 Jun 2024 Unique Number : 11061077 Diagnosed : 05 Jun 2024 - Wes Davis Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (225)562-3515

Received

: 04 Jun 2024

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Report Id: STJCONKL [WUSCAR] 06198954 (Generated: 06/05/2024 04:56:30) Rev: 1

Laboratory

Sample No.

: WC0922389

Contact/Location: GREG JOSEY - STJCONKL