

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## PALASYN 45 Machine Id PALATEK 20CE001048 - WALNUT GROVE WEST Component Compressor

| Resample at the next service interval to monitor.   Sample Number   Client Inf   U   US0803100      Sample Date   Client Inf   U   3936   2905      Machine Age   hrs   Client Inf   U   3936   2905      Machine Age   hrs   Client Info   U   1000   400      Micro Sample Satur   Client Info   V   NorMat   NorMat      WEAR   Iron   pm   ASTM D5185   S0   0       All component wear rates are normal.   Iron   pm   ASTM D5185   S0   0       Nice   pm   ASTM D5185   S0   0        All component wear rates are normal.   Fim   S0   S1   0 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>  |  |                  |        |             |           |             |             |          |
|--|--|------------------|--------|-------------|-----------|-------------|-------------|----------|
| Sample Date     Client link     Statistics     Stat | RECOMMENDATION   | Test             | UOM    | Method      | Limit/Abn | Current     | History1    | History2 |
| Sample Date     Client Info     03 J204     80be 2020     ···       Machine Age     in     Client Info     336     90.0     ···       Filter Age     ins     Client Info     1000     40.0     ···       Filter Age     ins     Client Info     1000     40.0     ···       Ol Changed     Client Info     No     60.0     Changed     1     1     Changed     1     Changed     1   | Resample at the next service interval to monitor.                        | Sample Number    |        | Client Info |           | UCS06232367 | UCS06051068 |          |
| Oil AgeNrsOlient InfoI100080.009.70Filter AgeNrsClient InfoI1000400OIC AgeClient InfoIClient InfoNr Changed0.70Filter ChangesIClient InfoNr ChangedNr ChangedWEARIronpmStM D5156-5000.0Al component wear rates are normal.IronpmStM D5156-5000.0NickelpmStM D5156-500.00.0All component wear rates are normal.NickelpmStM D5156-500.0NickelpmStM D5156-500.0All component wear rates are normal.NickelpmStM D5156-500.0 </th <th> F</th> <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>03 Jul 2024</th> <th>28 Dec 2023</th> <th></th>   | F  | Sample Date      |        | Client Info |           | 03 Jul 2024 | 28 Dec 2023 |          |
| Filter Age     ins     Client Info     1000     40.0        Oil Changed     Client Info     Not Changed      Reanged        Filter Ohanged     Oil Changed     Oil Changed     Oil Changed     NORMAI        WEAR     Iron     pm     ASTAD5150     -50     0.0     0.0        All component wear rates are normal.     Iron     pm     ASTAD5150     -50     0.0     0.0        Nicke     ppm     ASTAD5150     -50     0.0     0.0        Nicke     ppm     ASTAD5150     -50     0.0     0.0        Micke     ppm     ASTAD5150     50     0.0     0.0        Aluminum     ppm     ASTAD5150     52     0     0.0        Mardium     ppm     ASTAD5150     50     0         Mardium     ppm     ASTAD5150     52     0     0        Variatim     ppm <td< th=""><th></th><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>3936</th><th>2905</th><th></th></td<>   |  | Machine Age      | hrs    | Client Info |           | 3936        | 2905        |          |
| Oil Changed     Client Into     Not Changed     Ch   |  | Oil Age          | hrs    | Client Info |           | 1000        | 800         |          |
| Filter Changed<br>Sample Status     Client Into<br>Sample Status     Changed<br>NORMAL   |  | Filter Age       | hrs    | Client Info |           | 1000        | 400         |          |
| Sample StatusNORMANORMANormalWEARIronpmASM (SISMS.0000All component wear rates are normal.NorkelpmASM (SISM0000NickelpmASM (SISM000000SilverpmASM (SISM000000SilverpmASM (SISM25000000AuminumpmASM (SISM25000000CopperASM (SISM250000000TimpmASM (SISM250000000VanadiumscalaVisualNOKNOKNOKNOK0000ValedscalaVisualNOKNOKNOKNOKNOKNOK0000ValedscalaVisualNOKNOKNOKNOKNOKNOKNOKNOK00 </th <th></th> <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Not Changd</th> <th>Changed</th> <th></th>   |  | Oil Changed      |        | Client Info |           | Not Changd  | Changed     |          |
| WEAR     Iron     ppm     ASTM DS18m     >50     0     0   |  | •                |        | Client Info |           | Changed     | Changed     |          |
| All component wear rates are normal.   Chromium   ppm   ASTM D518m   >10   0   0      Nickel   ppm   ASTM D518m   C   0   0      Titanium   ppm   ASTM D518m   C   0   0      Silver   ppm   ASTM D518m   -2   0   0      Aluminum   ppm   ASTM D518m   >25   0   0      Lead   ppm   ASTM D518m   >50   0       Vanadium   ppm   ASTM D518m   >50   0   |  | Sample Status    |        |             |           | NORMAL      | NORMAL      |          |
| Nickel     ppm     ASTM D5186m     0     0   | WEAR   | Iron             | ppm    | ASTM D5185m | >50       | 0           | 0           |          |
| Nickel pm ASTM D5183··· 0 0    Titation pm ASTM D5183··· 0 0    Silver pm ASTM D5183··· 20 0.0    Aluminum pm ASTM D5185··· 20 0.0    Lead pm ASTM D5185··· 20 0.0    Tin pm ASTM D5185··· 50 0.0    Vanadium pm ASTM D5185···  0.0    Tin pm ASTM D5185···  0.0    Vanadium pm ASTM D5185···  0.0    Polon scalar Visual NONE NONE NONE NONE    Siltor scalar Visual NONE   |  | Chromium         | ppm    | ASTM D5185m | >10       | 0           | 0           |          |
| Silver     pp     ASTM D5185m     Q     0     0        Aluminum     ppm     ASTM D5185m     >225     0.0     0.0        Lead     ppm     ASTM D5185m     >255     0.0     0.0        Copper     ppm     ASTM D5185m     >255     0.0     0.1        Tin     ppm     ASTM D5185m     >255     0.0     0.1        Vanadium     ppm     ASTM D5185m     >50     0.1         Vanadium     ppm     ASTM D5185m     >50     0.0         Vanadium     ppm     ASTM D5185m     >20     0.0         Vanadium     ppm     ASTM D5185m     >20     0.0         Visiou     NONE     NONE     NONE     NONE     NONE        Silicon     ppm     ASTM D5185m     >20     0.0     0        Sadd/Dirt     scalar     Visual  |  | Nickel           | ppm    | ASTM D5185m |           | 0           | 0           |          |
| Aluminum<br>LeadpmASTM 05168<br>PPM>2500LeadpmASTM 05168>2500CopperpmASTM 05168>100TinpmASTM 05168>100VanadiumpmASTM 05168>100VanadiumpmASTM 05168>100VanadiumpmASTM 05168>100VanadiumpmASTM 05168>100Valow MetalscalaVisualNONENONENONENONEPollow MetalscalaVisualNONENONE0Nerre is no indication of any contamination in the oil.SiliconpmASTM 05168>2000DefasiumpmASTM 05168>20NONENONENONENONENONESiliconscalaVisualNONENONENONENONENONENONEDefasiumpmASTM 05168visualNONENONENONENONENONEOdorscalaVisualNONENONENONENONENONENONENether is acceptable for this fluid. The condition of the oil is<br>suitable for further service.ScalarVisualNONENONENONEManganesepmASTM 051680.0000<   |  | Titanium         | ppm    | ASTM D5185m |           | 0           | <1          |          |
| Lead     pm     ASTM D515m     >25     0     0        Copper     pm     ASTM D515m     >50     0     <1  |  | Silver           | ppm    | ASTM D5185m |           | 0           | 0           |          |
| Copper<br>TinASTM D5189>500<1  |  | Aluminum         | ppm    | ASTM D5185m | >25       | 0           | 0           |          |
| Tin     ppm     ASTM D51650     >15     0     <1   |  | Lead             | ppm    | ASTM D5185m | >25       | 0           | 0           |          |
| VanadiumppmASTM D5185m00<1   |  | Copper           | ppm    | ASTM D5185m | >50       | 0           | <1          |          |
| White Metal<br>Yellow Matalscalar'VisualNONENONENONENONTAMINATIONSiliconppmASTM D5185m>.25221Nonter is no indication of any contamination in the oil.PotassiumppmASTM D5185m>.2000WaterVisualNONEMONEMONEMONEMONEMONEMONESiliconscalar'VisualNONEMONEMONEMONEDebrisscalar'VisualNONEMONEMONEMONESand/Dirtscalar'VisualNONEMONEMONEAppearancescalar'VisualNONEMONEMONEFLUID CONDITIONSodiumppmASTM D5185m0.00.0Suitable for further service.SodiumppmASTM D5185m0.00.0MolydenamesppmASTM D5185m0.00.00.0MolydenamesppmASTM D5185m0.00.00.0MolydenamesppmASTM D5185m0.00.00.0MolydenamesppmASTM D5185m0.00.00.0MolydenamesppmASTM D5185m0.00.00.0MolydenamesppmASTM D5185m0.00.00.0MolydenamesppmASTM D5185m0.00.00.0 <th></th> <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;15</th> <th>0</th> <th>&lt;1</th> <th></th>   |  | Tin              | ppm    | ASTM D5185m | >15       | 0           | <1          |          |
| Yellow MetalscalarYisualNONENONENONEICONTAMINATIONSiliconppmASTM D5185>202<1There is no indication of any contamination in the oil.PotassiumppmASTM D5185>2000WaterWC Method>0.1NONENONENONENONESiliconscalarVisualNONENONENONENONESiliconscalarVisualNONENONENONEBordinscalarVisualNORENONENONEAppearancescalarVisualNORENORENOREAppearancescalarVisualNORENORENORECodorscalarVisualNORENORENOREFLUID CONDITIONSodiumppmASTM D51850.00.00.0Suitable for further service.SodiumppmASTM D51850.00.00.0MolybdenumppmASTM D51850.00.00.0MagnaeseppmASTM D51850.00.00.0MagnesiumpmASTM D51850.00.00.0MagnesiumpmASTM D51850.00.00.0MolybdenumpmASTM D51850.00.00.0The AN   |  | Vanadium         | ppm    | ASTM D5185m |           | 0           | <1          |          |
| CONTAMINATION   Silicon   ppm   ASTM D5188m   >25   2   <1   |  | White Metal      | scalar | *Visual     | NONE      | NONE        | NONE        |          |
| Potassium   ppm   ASTM D5185   >20   0   0   |  | Yellow Metal     | scalar | *Visual     | NONE      | NONE        | NONE        |          |
| Water   WC Method   >0.1   NEG   NNEG      Silt   scalar   *Visual   NONE   NONE   NONE      Debris   scalar   *Visual   NONE   NONE   NONE   NONE      Sand/Dirt   scalar   *Visual   NONE   NONE   NONE   NONE      Appearance   scalar   *Visual   NORE   NORE   NORE   NORE      Odor   scalar   *Visual   NORE   NORE   NORE      Emulsified Water   scalar   *Visual   NORE   NORE   NORE      FLUID CONDITION   Sodium   ppm   ASTM D5185m   0.0   0   0      Boron   ppm   ASTM D5185m   0.0   0   0      Molybdenum   ppm   ASTM D5185m   0.0   0      Magneseu   ppm   ASTM D5185m   0.0   0   | CONTAMINATION<br>There is no indication of any contamination in the oil. | Silicon          | ppm    | ASTM D5185m | >25       | 2           | <1          |          |
| WaterWC Method>0.1NEGNEGSiltscalarVisualNORNONENONENONENONEDebrisscalarVisualNORNONENONENONENONESand/DirtscalarVisualNORNORNONENONENONEAppearancescalarVisualNORNORMNORMNORMLNORMLNORMLAppearancescalarVisualNORNORMNORMLNORMLNORMLNORMLGodorscalarVisualNORNORMNORMLNORMLNORMLNORMLEmulsified WaterscalarVisualNORNORMNORMLNORMLBoronppmASTM D51850.00.00.00.0MolybdenumppmASTM D51850.00.00.0MagneseppmASTM D51850.00.00.0MagnesiumppmASTM D51850.00.00.0MagnesiumppmASTM D51850.00.00.0PhosphorusppmASTM D51850.00.00.0ReductppmASTM D51850.00.00.0MagnesiumppmASTM D51850.00.00.0PhosphorusppmASTM D51850.00.00.0Asthologian <th>Potassium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;20</th> <th>0</th> <th>0</th> <th></th>  |  | Potassium        | ppm    | ASTM D5185m | >20       | 0           | 0           |          |
| Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORNORMNORMLOdorscalar*VisualNORNORMNORMLEmulsified Warscalar*VisualNORNORMLNORMLFLUID CONDITIONSodiumscalarVisual>0.1NEG10BoronppmASTM D5185m0.00.00.0MolybdenumppmASTM D5185m0.00.00.0MolybdenumppmASTM D5185m0.00.00.0MaganeseeppmASTM D5185m0.00.00.0CalciumppmASTM D5185m0.00.00.0MagnesumppmASTM D5185m0.00.00.0MagnesumppmASTM D5185m0.00.00.0MagnesumppmASTM D5185m0.00.00.0PhosphorusppmASTM D5185m0.00.00.0MagnesumppmASTM D5185m0.00.00.0MagnesumppmASTM D5185m0.00.00.0MagnesumppmASTM D5185m0.00.00.0MagnesumppmASTM D5185m0.0 <th>Water</th> <th></th> <th>WC Method</th> <th>&gt;0.1</th> <th>NEG</th> <th>NEG</th> <th></th>   |  | Water            |        | WC Method   | >0.1      | NEG         | NEG         |          |
| Sand/Dirtscalar'VisualNONENONENONEAppearancescalar'VisualNORUNORMLNORMLOdorscalar'VisualNORUNORMLNORMLINORMLEmulsified Waterscalar'VisualNORUNORMLNORMLFLUID CONDITIONSodiumppmASTM D5185mBoronppmASTM D5185m0.000BariumppmASTM D5185m0.000MolybdenumppmASTM D5185m0.000MaganeseppmASTM D5185m0.00MagnesiumppmASTM D5185m0.00MagnesumppmASTM D5185m0.00MagnesumppmASTM D5185m0.00MagnesumppmASTM D5185m0.000PhosphorusppmASTM D5185m0.000PhosphorusppmASTM D5185m0.000PhosphorusppmASTM D5185m0.000PhosphorusppmASTM D5185m0.000PhosphorusppmASTM D5185m0.0000PhosphorusppmASTM D5185m0.0000-  |  | Silt             | scalar | *Visual     | NONE      | NONE        | NONE        |          |
| Appearance<br>Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLIOdorscalar*VisualvisualNORMLNORMLNORMLNORMLNORMLNORMLIEmulsified Watescalar*VisualvisualvisualvisualNORNEGNEGFLUID CONDITIONSodiumppmASTM D5185visual0.00.00.0BoronppmASTM D51850.00.00.00.0BariumppmASTM D51850.00.00.0MolybdenumppmASTM D51850.00.00.0MaganeseppmASTM D51850.00.00.0CalciumppmASTM D51850.00.00.0PhosphorusppmASTM D51850.00.00.0ZincppmASTM D51850.00.00.0   |  | Debris           | scalar | *Visual     | NONE      | NONE        | NONE        |          |
| Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Watescalar*Visual>0.1NEGNEGNEGNEGNEGNEGNEGFLUID CONDITIONSodiumppmASTM D5185m0.000BoronppmASTM D5185m0.000BariumppmASTM D5185m0.000MolybdenumppmASTM D5185m0.000ManganeseppmASTM D5185m0.00<MagnesiumppmASTM D5185m0.000CalciumppmASTM D5185m0.000PhosphorusppmASTM D5185m0.000ZincppmASTM D5185m0.000NomeppmASTM D5185m0.000MagnesiumppmASTM D5185m0.000NomeppmASTM D5185m0.000NomeppmASTM D5185m0.000NomeppmASTM D5185m0.000NomeppmASTM D5185m0.000NomeppmASTM D5185m0.000NomeppmASTM D5185m0.000<   |  | Sand/Dirt        | scalar | *Visual     | NONE      | NONE        | NONE        |          |
| Emulsified Waterscalar*Visual>0.1NEGNEGFLUID CONDITIONSodiumppmASTM D5185mc-11The AN level is acceptable for this fluid. The condition of the oil is<br>suitable for further service.SodiumppmASTM D5185m0.000BoronppmASTM D5185m0.000BariumppmASTM D5185m0.000MalybdenumppmASTM D5185m0.000MagnesiumppmASTM D5185m0.020MagnesiumppmASTM D5185m0.000CalciumppmASTM D5185m0.000PhosphorusppmASTM D5185m0.000ZincppmASTM D5185m0.000   |  | Appearance       | scalar | *Visual     | NORML     | NORML       | NORML       |          |
| FLUID CONDITION   Sodium   ppm   ASTM D5185m   |  | Odor             | scalar | *Visual     | NORML     | NORML       | NORML       |          |
| BoronppmASTM D5185m0.000BariumppmASTM D5185m0.000MolybdenumppmASTM D5185m0.000ManganeseppmASTM D5185m0.000MagnesiumppmASTM D5185m0.000CalciumppmASTM D5185m0.000PhosphorusppmASTM D5185m0.000ZincppmASTM D5185m0.000   |  | Emulsified Water | scalar | *Visual     | >0.1      | NEG         | NEG         |          |
| BoronppmASTM D5185m0.000BariumppmASTM D5185m0.000MolybdenumppmASTM D5185m0.000ManganeseppmASTM D5185m0.000MagnesiumppmASTM D5185m0.000CalciumppmASTM D5185m0.000PhosphorusppmASTM D5185m0.000ZincppmASTM D5185m0.000   | FLUID CONDITION  | Sodium           | ppm    | ASTM D5185m |           | <1          | 1           |          |
| suitable for further service.   Barium   ppm   ASTM D5185m   0.0   0      Molybdenum   ppm   ASTM D5185m   0.0   0   0.0      Manganese   ppm   ASTM D5185m   0.0   0.0   <     Magnesium   ppm   ASTM D5185m   0.0   0.0   <     Calcium   ppm   ASTM D5185m   0.0   0.0   <     Phosphorus   ppm   ASTM D5185m   0.0   0.0   <     Zinc   ppm   ASTM D5185m   0.0   0.0   <  |  |                  |        |             | 0.0       | 0           | 0           |          |
| Manganese   ppm   ASTM D5185m   0.0   Q   <1   |  |                  |        | ASTM D5185m | 0.0       | 0           | 0           |          |
| Magnesium   ppm   ASTM D5185m   0.0   2   0      Calcium   ppm   ASTM D5185m   0.0   0   0      Phosphorus   ppm   ASTM D5185m   966   351   337      Zinc   ppm   ASTM D5185m   0   0   0   |  | Molybdenum       | ppm    | ASTM D5185m | 0         | 0           | 0           |          |
| Calcium   ppm   ASTM D5185m   0.0   0   0      Phosphorus   ppm   ASTM D5185m   966   351   337      Zinc   ppm   ASTM D5185m   0   0   0  |  | Manganese        | ppm    | ASTM D5185m | 0         | 0           | <1          |          |
| Phosphorus     ppm     ASTM D5185m     966     351     337        Zinc     ppm     ASTM D5185m     0     0     0   |  | Magnesium        | ppm    | ASTM D5185m | 0.0       | 2           | 0           |          |
| Zinc ppm ASTM D5185m 0 0   |  | Calcium          | ppm    | ASTM D5185m | 0.0       | 0           | 0           |          |
|  |  | Phosphorus       | ppm    | ASTM D5185m | 966       | 351         | 337         |          |
| Sulfur     ppm     ASTM D5185m     1309     721     219  |  | Zinc             | ppm    | ASTM D5185m | 0         | 0           | 0           |          |
|  |  | Sulfur           | ppm    | ASTM D5185m | 1309      | 721         | 219         |          |

Acid Number (AN) mg KOH/g ASTM D8045 0.172

ASTM D445 39.9

cSt

Visc @ 40°C

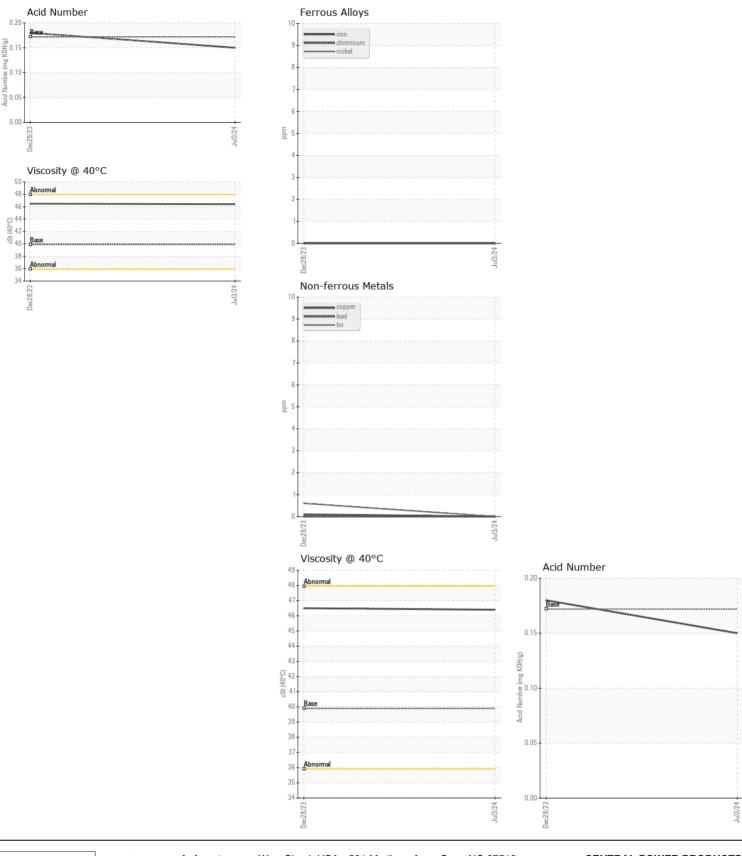
Contact/Location: JASON ? - UCCENART

0.18

46.5

0.15

46.4



**CENTRAL POWER PRODUCTS** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : UCS06232367 Received 100 N INDUSTRIAL PKWY : 10 Jul 2024 Ē Lab Number : 06232367 Tested ARTHUR, IL : 11 Jul 2024 Unique Number : 11115860 Diagnosed : 11 Jul 2024 - Wes Davis US 61911 Test Package : IND 2 Contact: JASON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. centralpower22@gmail.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (217)543-2022 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (217)543-2224

Contact/Location: JASON ? - UCCENART Page 2 of 2