

## Machine Id WACKER G25 WACKER G25 Component Genset Fluid

## TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (10 QTS)

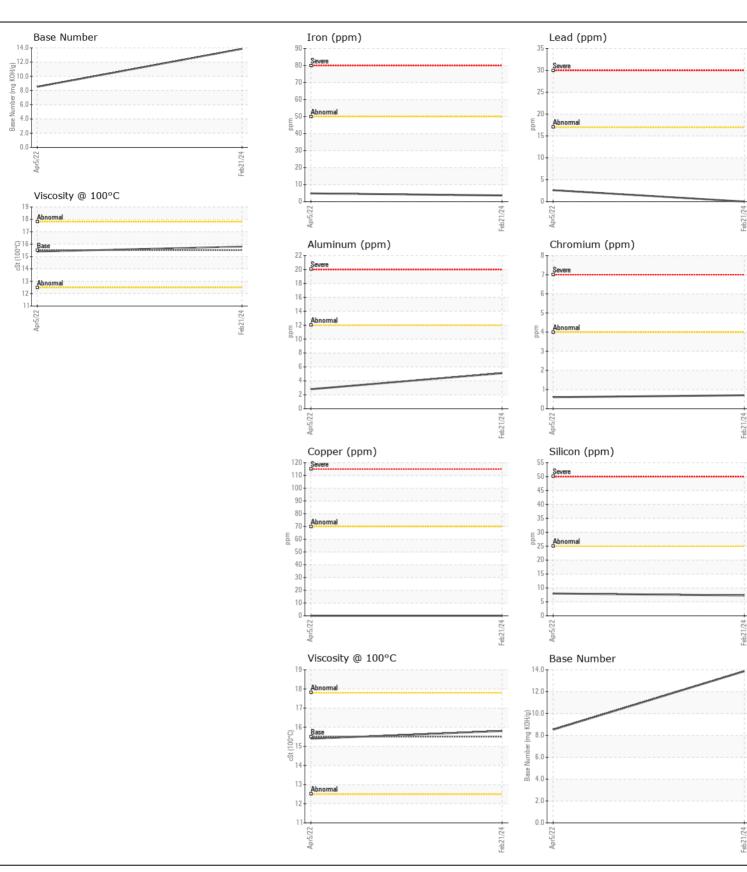
Recommendation    Test Sample Number    UOM    Method    turks    Research Research    History 2      Resample at the next service interval to monitor.    Sample Number    Citent Into    1	TRC PRO-SPEC III STNTHETIC BLEND 13W40	(10 (13)						
Basemple at the next service interval to monitor.    Sample Number of the interval to monitor.    Sample Number of the interval to monitor.    Interval to mo	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age    Dial fund bate    Direct ale    Probate    Direct ale    Direc		Sample Number		Client Info		TR06101162	TR05562017	
Oil Age    ins    Client Info    O    0    0		Sample Date		Client Info		21 Feb 2024	05 Apr 2022	
File Age    hrs    Client Info    O    O    O    O    O    O      OI Changd    Client Info    Client Info    Changed    Chan		Machine Age	hrs	Client Info		0	682	
OI Changed Fitter Changed    Client Info    Changed Changed    Changed Changed <th>Oil Age</th> <td>hrs</td> <td>Client Info</td> <td></td> <th>0</th> <td>0</td> <td></td>		Oil Age	hrs	Client Info		0	0	
Filter Changed Sample Status    Client Info    Changed NORMA    Changed NORMA		Filter Age	hrs	Client Info		0	0	
Sample StatusNormalNormalNormalNormalNormalWEARIronpmAND 10%>504551010NickepmAND 10%>400010		Oil Changed		Client Info		Changed	Changed	
WEAR    Iron    ppm    ASTM D3188n    >50    4    5       All component wear rates are normal.    Promunum    ppm    ASTM D3188n    >4    <1		Filter Changed		Client Info		Changed	Changed	
All component wear rates are normal.    Ohromium    ppm    ASTM 0518m    >4    c1    s1    s		Sample Status				NORMAL	NORMAL	
All component wear rates are normal.  Nickel  ppm  4311 0515m  >2  0  0	WEAR	Iron	ppm	ASTM D5185m	>50	4	5	
Native    ppm    As Nu bolisity    2    0    0		Chromium	ppm	ASTM D5185m	>4	<1	<1	
Silver    pp    ASTU D318m    >5    0    0	All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	
Aluminum    ppm    ASTM D5185m    >12    5    3       Lead    ppm    ASTM D5185m    >77    0    3       Copper    ppm    ASTM D5185m    >75    0    0    0       Tin    ppm    ASTM D5185m    >15    0    1       Vanadium    ppm    ASTM D5185m    >15    0    0    0       White Metal    scalar    Visual    NONE    NONE    NONE    NONE       CONTAMINATION    Silicon    ppm    ASTM D5185m    >25    7    8       There is no indication of any contamination in the oil.    Silicon    ppm    ASTM D5185m    >20    1.0       Water    WC Method    >0.1    0.1         Silicon    %0    %STM D764    >0.1    0.1        Silicon    %0    %STM D764    >0.1    0.1		Titanium	ppm	ASTM D5185m		0	0	
Lead    pp    ASTM D5185m    >17    0    3       Copper    ppm    ASTM D5185m    >15    0    0       Tin    ppm    ASTM D5185m    15    0    0    0       Vanadium    ppm    ASTM D5185m    15    0    0    0       White Metal    scalar    Visual    NONE    NONE    NONE    NONE       There is no indication of any contamination in the oil.    Silicon    ppm    ASTM D5185m    >20    0    <1		Silver	ppm	ASTM D5185m	>5	0	0	
Copper    ppm    ASTM D5185m    >70    0    0       Tin    ppm    ASTM D5185m    >15    0    1       Vanadium    ppm    ASTM D5185m    >15    0    0       White Metal    scalar    'Visual    NONE    NONE    NONE    NONE       CONTAMINATION    Silicon    ppm    ASTM D5185m    >20    0    <1		Aluminum	ppm	ASTM D5185m	>12	5	3	
Tin    ppm    ASTM DS18m    >15    0    1       Vanadium    ppm    ASTM DS18m    I    0		Lead	ppm	ASTM D5185m	>17	0	3	
Vanadium    ppm    ASTM D5185m    0    0		Copper	ppm	ASTM D5185m	>70	0	0	
White Metal Yellow Metal    scalar    'Visual    NONE		Tin	ppm	ASTM D5185m	>15	0	1	
Yellow Metal    scalar    Visual    NONE    NONE		Vanadium	ppm	ASTM D5185m		0	0	
Silicon    ppm    ASTM D5185m    >25    7    8       Potassium    ppm    ASTM D5185m    >20    0    <1		White Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium    pp    ASTM D5185m    >20    0    <1    I=      Fuel    WC Method    >4.0    <1.0		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium    pp    ASTM D5/85m    >20    0    <1    I=      Fuel    WC Method    >4.0    <1.0	CONTAMINATION	Silicon	mag	ASTM D5185m	>25	7	8	
Fuel    WC Method    >4.0    <1.0		Potassium				0		
Water    WC Method    >0.1    NEG    NEG       Glycol    WC Method    NEG    NEG       Sod %    %    ASTM D784    0.1    0.1    0.1       Nitration    Abs/m    "ASTM D784    >20    10.8    7.8       Nitration    Abs/m    "ASTM D784    >20    10.8    7.8       Sulfation    Abs/m    "ASTM D784    >20    10.8    7.8       Sulfation    Abs/m    "ASTM D784    >30    22.0    20.4       Sulfation    Abs/m    "ASTM D784    NONE    NONE    NONE    NONE       Sulfation    scalar    "Visual    NOR    NOR    NOR       Appearance    scalar    "Visual    NOR    NORM    NORM       Boron    ppm    ASTM D5185m    N    181    17.3       Marganese    ppm    ASTM D5185m    S <td rowspan="12">There is no indication of any contamination in the oil.</td> <th>Fuel</th> <td></td> <td>WC Method</td> <td>&gt;4.0</td> <th>&lt;1.0</th> <td>&lt;1.0</td> <td></td>	There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0	<1.0	
Glycol    WC Method    NEG    NEG <t< td=""><th>Water</th><td></td><td>WC Method</td><td>&gt;0.1</td><th>NEG</th><td>NEG</td><td></td></t<>		Water		WC Method	>0.1	NEG	NEG	
Nitration  Abs/cm  *ASTM D7624  >20  10.8  7.8     Sulfation  Abs/tm  'ASTM D7415  >30  22.0  20.4     Silt  scalar  *Visual  NONE  NONE  NONE     Debris  scalar  *Visual  NONE  NONE  NONE     Sand/Dirt  scalar  *Visual  NORM  NONE  NONE     Appearance  scalar  *Visual  NORML  NORML  NORML  NORML     Odo  scalar  *Visual  NORML		Glycol		WC Method		NEG	NEG	
SulfationAbs/ImYASTM D7415>3022.020.4Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMNORMLNORMLEmulsified Waterscalar*VisualNORNORMLNORMLBoronppmASTM D5185m00BariumppmASTM D5185m1000MolybdenumppmASTM D5185m1000MaganeseppmASTM D5185m117471MagnesiumppmASTM D5185m1161138MagnesiumppmASTM D5185m1665922.9322.93OcaliumppmASTM D5185m1685911030MagnesiumppmASTM D5185m103655922.93OpentorASTM D5185m103655922.93MagnesiumppmASTM D5185m103655922.93MagnesiumppmASTM D5185m103655922.93MagnesiumppmASTM D5185m10 <th>Soot %</th> <td>%</td> <td>*ASTM D7844</td> <td></td> <th>0.1</th> <td>0.1</td> <td></td>		Soot %	%	*ASTM D7844		0.1	0.1	
Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORNORMLNORMLEmulsified Waterscalar*VisualNORNORMLNORMLBoronppASTM D5185m00BariumppASTM D5185m100ManganeseppASTM D5185m100ManganesumppASTM D5185m101103ManganesumppASTM D5185m101103ManganesumppASTM D5185m1011031ManganesumppASTM D5185m101327CalciumppASTM D5185m101327ZincpmASTM D5185m10362613327SuffurpmASTM D5185m1036263655Cixciationkbs/tm'ASTM D714i-2519.817.7Norda		Nitration	Abs/cm	*ASTM D7624	>20	10.8	7.8	
Debris  scalar  *Visual  NONE  NONE     Sand/Dirt  scalar  *Visual  NONE  NONE     Appearance  scalar  *Visual  NORM  NORML  NORML     Odor  scalar  *Visual  NORM  NORML  NORML     Ddor  scalar  *Visual  NORM  NORML  NORML     Emulsified Water  scalar  *Visual  NORM  NORML  NORML     FLUID CONDITION  Sodium  ppm  ASTM D5185m  0  44     Boron  ppm  ASTM D5185m  0  44     Molybdenum  ppm  ASTM D5185m  0  0     Maganesium  ppm  ASTM D5185m  <		Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	20.4	
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m04BoronppmASTM D5185m00BariumppmASTM D5185m00MolybdenumppmASTM D5185m00MaganeseppmASTM D5185m174MaganeseppmASTM D5185m1163MagnesiumppmASTM D5185m36592293MagnesiumppmASTM D5185m36592293MagnesiumppmASTM D5185m36592293MagnesiumppmASTM D5185m36592293SulfurppmASTM D5185m36592293SulfurppmASTM D5185m36592293SulfurppmASTM D5185m36592293SulfurppmASTM D5185m36593655SulfurppmASTM D5185m36593655SulfurppmASTM D5		Silt	scalar	*Visual	NONE	NONE	NONE	
Appearance Odorscalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visuals0.11NORMLNORMLFLUID CONDITIONSodiumppmASTM D5185m04BoronppmASTM D5185m0181173BariumppmASTM D5185m00MolybdenumppmASTM D5185m00MaganeseeppmASTM D5185m01138MagnesiumppmASTM D5185m04161388CalciumppmASTM D5185m0416138MagnesiumppmASTM D5185m082691103PhosphorusppmASTM D5185m082601103SulfurppmASTM D5185m036592293SulfurppmASTM D5185m036592293SulfurppmASTM D5185m036593657SulfurppmASTM D5185m035263655OxidationAbs/:1mm'ASTM D5144>2519.817.7		Debris	scalar	*Visual	NONE	NONE	NONE	
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGFLUID CONDITIONThe BN result indicates that there is suitable alkalinity remaining in the oil is suitable for further service.SodiumppmASTM D5185mI181173IBariumppmASTM D5185mI181173IIMalganeseeppmASTM D5185mI17477IMagnesiumppmASTM D5185mI416138ICalciumppmASTM D5185mI416138IPhosphorusppmASTM D5185mI8261103IZincppmASTM D5185mI8261103ISulfurppmASTM D5185mI10831327IOxidationAbs/:1mm'ASTM D7414>2519.817.7I		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water  scalar  *Visual  >0.1  NEG  NEG     FLUID CONDITION  Sodium  ppm  ASTM D5185m  0  4     Boron  ppm  ASTM D5185m  0  0     Barium  ppm  ASTM D5185m  0  0     Molybdenum  ppm  ASTM D5185m  0  0     Manganese  ppm  ASTM D5185m  174  7     Manganesum  ppm  ASTM D5185m  416  138     Manganesum  ppm  ASTM D5185m  416  138     Calcium  ppm  ASTM D5185m  416  138     Phosphorus  ppm  ASTM D5185m  416  138     Zinc  ppm  ASTM D5185m  826  1103     Sulfur  ppm  ASTM D5185m  1083  1327     Sulfur  ppm  ASTM D5185m  1083  1327     Sulfur  ppm  ASTM D5185m  19.8		Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium  ppm  ASTM D5185m  0  4     Boron  ppm  ASTM D5185m  181  173     Barium  ppm  ASTM D5185m  0  0     Molybdenum  ppm  ASTM D5185m  0  0     Manganese  ppm  ASTM D5185m  174  7     Manganese  ppm  ASTM D5185m  416  138     Calcium  ppm  ASTM D5185m  416  138     Calcium  ppm  ASTM D5185m  3659  2293     Zinc  ppm  ASTM D5185m  1083  1327     Sulfur  ppm  ASTM D5185m  3656  3655     Oxidation  Abs/:nm  'ASTM D7141<>25  19.8  17.7  -		Odor	scalar	*Visual	NORML	NORML	NORML	
Boron  ppm  ASTM D5185m  181  173     Barium  ppm  ASTM D5185m  0  0     Molybdenum  ppm  ASTM D5185m  0  0     Molybdenum  ppm  ASTM D5185m  0  174  7  1    Manganese  ppm  ASTM D5185m  1  416  138  1    Magnesium  ppm  ASTM D5185m  1  416  138  1    Calcium  ppm  ASTM D5185m  1  416  138  1    Phosphorus  ppm  ASTM D5185m  1  416  138  1    Zinc  ppm  ASTM D5185m  1  416  138  1    Sulfur  ppm  ASTM D5185m  1  416  1383  1    Sulfur  ppm  ASTM D5185m  1  4163  1327     Sulfur  ppm  ASTM D5185m  1  3655  3655  1    Sulfur  ppm  ASTM D5185m  1  36526  36555 </td <th>Emulsified Water</th> <td>scalar</td> <td>*Visual</td> <td>&gt;0.1</td> <th>NEG</th> <td>NEG</td> <td></td>		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Boron  ppm  ASTM D5185m  181  173     Barium  ppm  ASTM D5185m  0  0     Molybdenum  ppm  ASTM D5185m  0  0     Molybdenum  ppm  ASTM D5185m  0  174  7  1    Manganese  ppm  ASTM D5185m  1  416  138  1    Magnesium  ppm  ASTM D5185m  1  416  138  1    Calcium  ppm  ASTM D5185m  1  416  138  1    Phosphorus  ppm  ASTM D5185m  1  416  138  1    Zinc  ppm  ASTM D5185m  1  416  138  1    Sulfur  ppm  ASTM D5185m  1  416  1383  1    Sulfur  ppm  ASTM D5185m  1  4163  1327     Sulfur  ppm  ASTM D5185m  1  3655  3655  1    Sulfur  ppm  ASTM D5185m  1  36526  36555 </td <td>FLUID CONDITION</td> <th>Sodium</th> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>4</td> <td></td>	FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	4	
Barium  ppm  ASTM D5185m  0  0     Molybdenum  ppm  ASTM D5185m  0  174  7  1    Manganese  ppm  ASTM D5185m  1  1  1  1  1    Manganese  ppm  ASTM D5185m  1  416  138  1  1    Calcium  ppm  ASTM D5185m  1  416  138  1  1    Phosphorus  ppm  ASTM D5185m  1  416  138  1								
Molybdenum  ppm  ASTM D5185m  174  7     Manganese  ppm  ASTM D5185m	, ,							
Manganese  ppm  ASTM D5185m  <1  <1     Magnesium  ppm  ASTM D5185m  416  138     Calcium  ppm  ASTM D5185m  3659  2293     Phosphorus  ppm  ASTM D5185m  6  826  1103     Zinc  ppm  ASTM D5185m  1083  1327     Sulfur  ppm  ASTM D5185m  1083  3655     Oxidation  Abs/.1mm  *ASTM D7414  >25  19.8  17.7								
Magnesium  ppm  ASTM D5185m  416  138     Calcium  ppm  ASTM D5185m  3659  2293     Phosphorus  ppm  ASTM D5185m  0  826  1103     Zinc  ppm  ASTM D5185m  1083  1327     Sulfur  ppm  ASTM D5185m  0  36526  36555     Oxidation  Abs/.1mm  *ASTM D7414  >25  19.8  17.7		,						
Calcium  ppm  ASTM D5185m  3659  2293     Phosphorus  ppm  ASTM D5185m  6  826  1103     Zinc  ppm  ASTM D5185m  1083  1327     Sulfur  ppm  ASTM D5185m  6  36526  36555     Oxidation  Abs/.1mm  *ASTM D7141  >25  19.8  17.7		-						
Phosphorus  ppm  ASTM D5185m  826  1103     Zinc  ppm  ASTM D5185m  1083  1327     Sulfur  ppm  ASTM D5185m  0  3526  3655     Oxidation  Abs/.1mm  *ASTM D7141  >25  19.8  17.7		U U						
Zinc  ppm  ASTM D5185m  1083  1327     Sulfur  ppm  ASTM D5185m  0  3526  3655     Oxidation  Abs/.1mm  *ASTM D7414  >25  19.8  17.7								
Sulfur    ppm    ASTM D5185m    3526    3655       Oxidation    Abs/.1mm    *ASTM D7414    >25    19.8    17.7								
Oxidation Abs/.1mm *ASTM D7414 >25 <b>19.8</b> 17.7								
					>25			
					-			

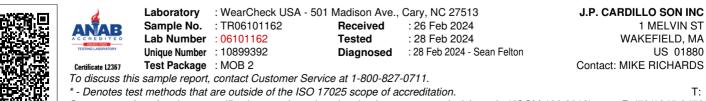
Visc @ 100°C cSt

ASTM D445 15.5

15.4

15.8





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (781)245-3478

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Contact/Location: MIKE RICHARDS - JPCWAK

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