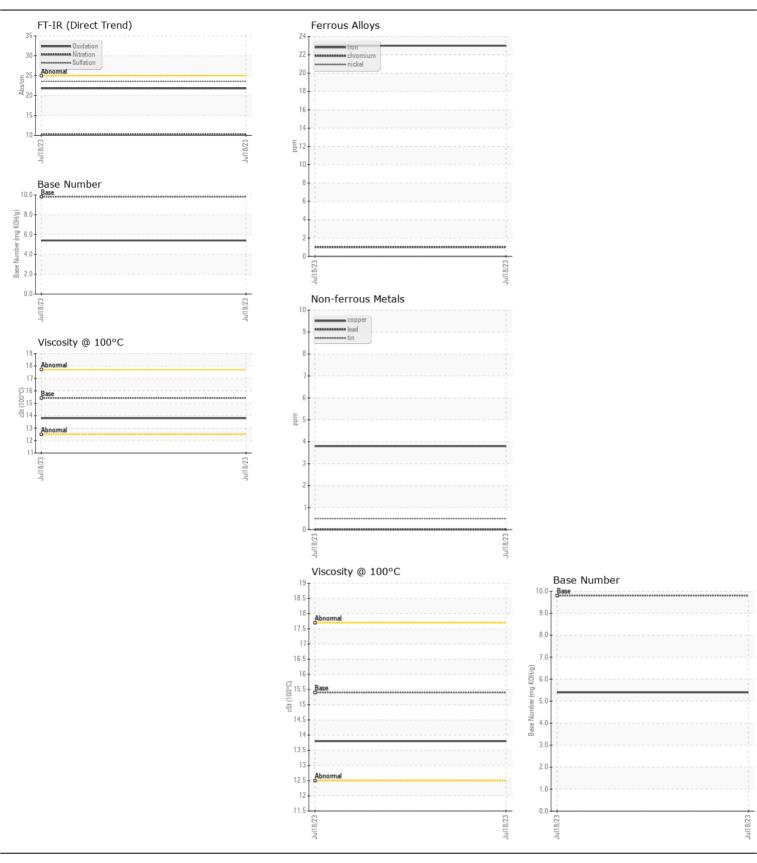


Machine Id
MACK 2204
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

Test	TETTO GANADA DOTION OTI		<u> </u>					
Resample at the next service interval to monitor.   Sample Date   Client Info   Sample Client Info   Client Info   Client Info   Changed   Client Info   Changed   Client Info   Changed   Cha	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age   mis   Client linfo   152176		Sample Number		Client Info		PCA0096096		
Col Age		Sample Date		Client Info		18 Jul 2023		
Filter Age		Machine Age	mls	Client Info		152176		
Cil Changed   Cilent Info   Changed   Cilent Info   Changed   Ch		Oil Age	mls	Client Info		21853		
Filter Changed   Client Info   Changed   Cha		Filter Age	mls	Client Info		21853		
Normal   N		Oil Changed		Client Info		Changed		
Iron		Filter Changed		Client Info		Changed		
All component wear rates are normal.    Chromium   ppm   ASTM DSISS   \$20   1         Titanium   ppm   ASTM DSISS   \$5   0         Titanium   ppm   ASTM DSISS   \$2   1         Silver   ppm   ASTM DSISS   \$2   1         Aluminum   ppm   ASTM DSISS   \$2   1         Aluminum   ppm   ASTM DSISS   \$2   1         Aluminum   ppm   ASTM DSISS   \$20   1         Aluminum   ppm   ASTM DSISS   \$20   1         Aluminum   ppm   ASTM DSISS   \$20   1         ASTM DSISS		Sample Status				NORMAL		
All component wear rates are normal.    Chromium   ppm   ASTM DSISS   \$20   1         Titanium   ppm   ASTM DSISS   \$5   0         Titanium   ppm   ASTM DSISS   \$2   1         Silver   ppm   ASTM DSISS   \$2   1         Aluminum   ppm   ASTM DSISS   \$2   1         Aluminum   ppm   ASTM DSISS   \$2   1         Aluminum   ppm   ASTM DSISS   \$20   1         Aluminum   ppm   ASTM DSISS   \$20   1         Aluminum   ppm   ASTM DSISS   \$20   1         ASTM DSISS	WEAR							
All component wear rates are normal.    Nickel   ppm   ASTM 05185n   55   0       Titanium   ppm   ASTM 05185n   52   0       Silver   ppm   ASTM 05185n   52   0       Aluminum   ppm   ASTM 05185n   52   0       Copper   ppm   ASTM 05185n   52   0       Copper   ppm   ASTM 05185n   52   1       Vanadium   ppm   ASTM 05185n   53   4       Vanadium   ppm   ASTM 05185n   51   51       Vanadium   ppm   ASTM 05185n   51   51       Vanadium   ppm   ASTM 05185n   52   1       Value   Visual   NONE   NONE       Value   Potassium   ppm   ASTM 05185n   52   1       Fuel   Wo Method   50   50   1       Value   Wo Method   50   50   1       Fuel   Wo Method   50   50   1       Water   Wo Method   50   2   1       Glycol   Wo Method   50   2   1       Glycol   Wo Method   50   2   1       Soot % % 'ASTM 0784   54   0.5       Nitration   Abs/cmm 'ASTM 0784   54   0.5       Nitration   Abs/cmm 'ASTM 0784   50   0.5       Debris   Scalar 'Visual   NONE   NONE       Debris   Scalar 'Visual   NONE       Debris   Scalar 'Visual   NONE         Debris   Scalar 'Visual   NONE         Debris   Scalar 'Visual   NONE         Debris   Scalar 'Visual   NONE           Debris   Scalar 'Visual   NONE             Debris   Scalar 'Visual   NO	WEAR							
Nicket   ppm   ASTM 05185m   >2   1	All component wear rates are normal.							
Silver   ppm   ASTM D5185m   >20   0         Aluminum   ppm   ASTM D5185m   >20   1         Lead   ppm   ASTM D5185m   >20   1         Lead   ppm   ASTM D5185m   >30   4         Tin   ppm   ASTM D5185m   >30   4         Tin   ppm   ASTM D5185m   >30   4         Vanadium   ppm   ASTM D5185m   >15   <1         Vanadium   ppm   ASTM D5185m   >15   <1         Vanadium   ppm   ASTM D5185m   >15   <1         Vanadium   ppm   ASTM D5185m   >25   7         Vallow Metal   Scalar   Visual   NONE   NONE         Vallow Metal   Scalar   Visual   NONE   NONE         Vallow Metal   Scalar   Visual   NONE   NONE         Vallow Metal   Ppm   ASTM D5185m   >25   7         Vallow Metal   Ppm   ASTM D5185m   >25   >2   >2   >2   >2     Vallow Metal   Ppm   ASTM D5185m								
Aluminum   ppm   ASTM D5185m   >20   1			ppm					
Lead   ppm   ASTM D5185m   3-40   0								
Copper								
Tin								
Vanadium   Vanadium								
White Metal   Scalar   "Visual   NONE   NO					>15			
Vellow Metal   Scalar   Visual   NONE   NONE           CONTAMINATION       There is no indication of any contamination in the oil.       Potassium   ppm   ASTM D5185m   >20   1           Fuel   WC Method   >3.0   <1.0         Water   WC Method   0.2   NEG         Glycol   WC Method   0.2   NEG         Soot   % %   %   *ASTM D7844   >4   0.5         Nitration   Abs/rm   *ASTM D7844   >20   10.2         Sulfation   Abs/rm   *ASTM D7845   >20   23.6         Sulfation   Abs/rm   *ASTM D7845   >3   3.6         Sulfation   Abs/rm   *ASTM D7845   >3   3.6         Sulfation   Ass/rm   Sulfation   Sulf								
Silicon   ppm   ASTM D5185m   >25   7								
Potassium   ppm   ASTM D5185m   2-0   1		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium   ppm   ASTM D5185m   2-0   1	CONTAMINATION	Silicon	nnm	ASTM D5185m	>25	7		
Fuel   WC Method   >0.2   NEG	CONTAMINATION		• •					
Water   WC Method   >0.2   NEG	There is no indication of any contamination in the oil.		ррпп					
Giycol   Soot % % 'ASTM D7844   A								
Soot %					70.L			
Nitration   Abs/cm   *ASTM D7624   >20   10.2		-	%		>4			
Sulfation   Abs/.lmm   *ASTM D7415   >30   23.6								
Silt   Scalar *Visual   NONE   NONE   NONE   NONE   Sand/Dirt   Scalar *Visual   NONE   NONE   NONE   Sand/Dirt   Scalar *Visual   NONE   NONE   NONE   Sand/Dirt   Scalar *Visual   NORML								
Debris   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NORML   N								
Sand/Dirt   Scalar   *Visual   NONE   NONE         NONE   Appearance   Scalar   *Visual   NORML								
Appearance   Scalar   *Visual   NORML   NORML   Codor   Scalar   *Visual   NORML   NORML   Compared   NORML   NORML								
Codor   Emulsified Water   Scalar   *Visual   NORML   NORML								
Emulsified Water   scalar   *Visual   >0.2   NEG						NORML		
Sodium   ppm   ASTM D5185m   0   0   0   0   0   0   0   0   0		<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
Boron   ppm   ASTM D5185m   0   0   0								
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.    Barium   ppm   ASTM D5185m   0   62	FLUID CONDITION		ppm					
oil. The condition of the oil is suitable for further service.    Molybdenum   ppm   ASTM D5185m   60   62         Manganese   ppm   ASTM D5185m   0   <1         Magnesium   ppm   ASTM D5185m   1010   1010         Calcium   ppm   ASTM D5185m   1070   1163         Phosphorus   ppm   ASTM D5185m   1150   1020         Zinc   ppm   ASTM D5185m   1270   1283         Sulfur   ppm   ASTM D5185m   2060   3249         Oxidation   Abs/.1mm *ASTM D7414   >25   21.8         Base Number (BN)   mg KOH/g   ASTM D2896   9.8   5.4	The BN result indicates that there is suitable alkalinity remaining in the							
Molybdenum         ppm         ASTM D5185m         60         62             Manganese         ppm         ASTM D5185m         0         <1             Magnesium         ppm         ASTM D5185m         1010         1010             Calcium         ppm         ASTM D5185m         1070         1163             Phosphorus         ppm         ASTM D5185m         1150         1020             Zinc         ppm         ASTM D5185m         1270         1283             Sulfur         ppm         ASTM D5185m         2060         3249             Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8             Base Number (BN)         mg KOH/g         ASTM D2896         9.8         5.4	, ,							
Magnesium         ppm         ASTM D5185m         1010         1010             Calcium         ppm         ASTM D5185m         1070         1163             Phosphorus         ppm         ASTM D5185m         1150         1020             Zinc         ppm         ASTM D5185m         1270         1283             Sulfur         ppm         ASTM D5185m         2060         3249             Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8             Base Number (BN)         mg KOH/g         ASTM D2896         9.8         5.4		•						
Calcium         ppm         ASTM D5185m         1070         1163             Phosphorus         ppm         ASTM D5185m         1150         1020             Zinc         ppm         ASTM D5185m         1270         1283             Sulfur         ppm         ASTM D5185m         2060         3249             Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8             Base Number (BN)         mg KOH/g         ASTM D2896         9.8         5.4								
Phosphorus         ppm         ASTM D5185m         1150         1020             Zinc         ppm         ASTM D5185m         1270         1283             Sulfur         ppm         ASTM D5185m         2060         3249             Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8             Base Number (BN)         mg KOH/g         ASTM D2896         9.8         5.4		•						
Zinc         ppm         ASTM D5185m         1270         1283             Sulfur         ppm         ASTM D5185m         2060         3249             Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8             Base Number (BN)         mg KOH/g         ASTM D2896         9.8         5.4								
Sulfur         ppm         ASTM D5185m         2060         3249             Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8             Base Number (BN)         mg KOH/g         ASTM D2896         9.8         5.4		·						
Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8             Base Number (BN)         mg KOH/g         ASTM D2896         9.8         5.4								
Base Number (BN)         mg KOH/g         ASTM D2896         9.8         5.4								
Visc @ 100°C cSt ASTM D445 15.4 13.8								
		Visc @ 100°C	cSt	ASTM D445	15.4	13.8		







Certificate L2367

Laboratory Sample No.

Lab Number : 05929218 Unique Number : 10609165

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0096096 Received : 21 Aug 2023

**Tested** : 22 Aug 2023 Diagnosed : 22 Aug 2023 - Wes Davis **Z FORCE TRANSPORTATION INC** 

700 E JOE ORR RD CHICAGO HEIGHTS, IL US 60411

Contact: MIKE PROCANIN

To discuss this sample report, contact Customer Service at 1-800-237-1369. mprocanin@zforcetransportation.com \* - 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)

T: F: