

## Machine Id SZLG730154 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

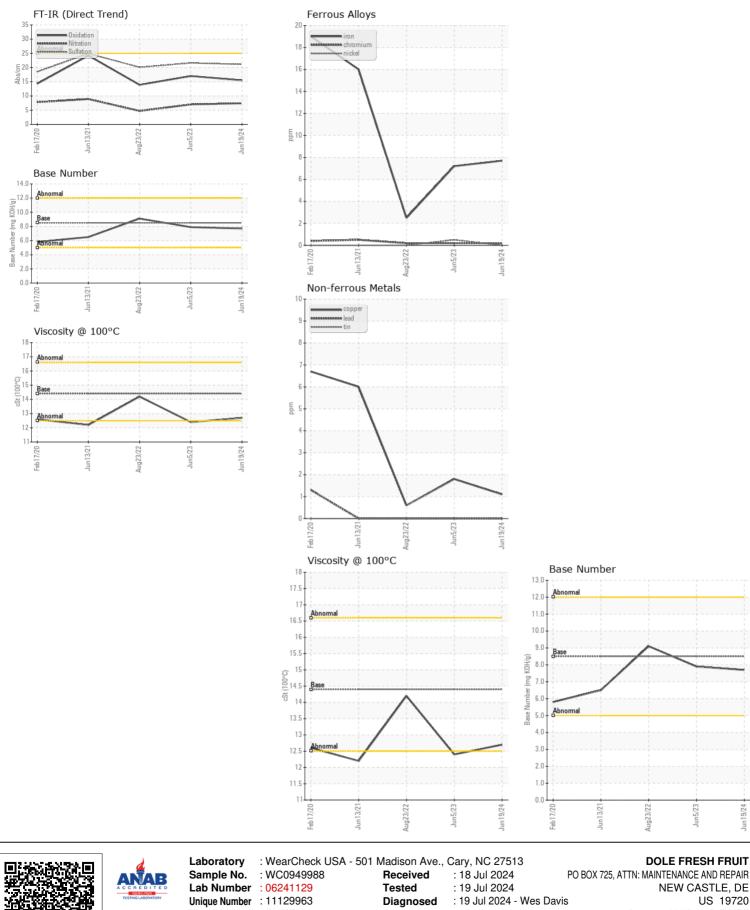
## CONTAMINATION

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 Date         Client Info         19 Jun 2024         05 Jun 2023         23 Aug 2022           Machine Age         hrs         Client Info         0         0         0         0           Gil Age         hrs         Client Info         0         0         0         0         0           Gil Age         hrs         Client Info         N/A         N/A         N/A         Changed           Gil Anaged         Client Info         N/A         N/A         N/A         Changed           Gilter Changed         Client Info         N/A         N/A         N/A         Changed           Sample Status         Client Info         N/A         N/A         N/A         Changed           Itranium         ppm         ASTM D5185m         >100         8         7         2           Chromium         ppm         ASTM D5185m         >20         <1	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         8274         6742         5252           Oil Age         hrs         Client Info         0         0         0           Filter Age         hrs         Client Info         N/A         N/A         Changed           Oil Changed         Client Info         N/A         N/A         N/A         Changed           Sample Status         Client Info         N/A         N/A         N/A         NORMAL           Iron         ppm         ASTM D5185m         >200         <1         <1         <1           Nickel         ppm         ASTM D5185m         >200         <1         <1         <1           Nickel         ppm         ASTM D5185m         >30         0         <1         <1           Silver         ppm         ASTM D5185m         >30         0         0         <0           Agad         ppm         ASTM D5185m         >30         0         0         0         <1         1           Tin         ppm         ASTM D5185m         >20         1         <1         1         1           Yelow Metal         scalar         "Visual         NONE         NONE         NO	Sample Number		Client Info		WC0949988	WC0814740	WC0731411
Oil Age         hrs         Client Info         0         0         0         0           Filter Age         hrs         Client Info         N/A         N/A         N/A         Changed           Filter Changed         Client Info         N/A         N/A         N/A         Changed           Sample Status         Client Info         N/A         N/A         N/A         Changed           Iron         ppm         ASTM D5185m         >100         8         7         2           Chromium         ppm         ASTM D5185m         >20         <1         <1         <1           Nickel         ppm         ASTM D5185m         >3         0         <1         <1           Silver         ppm         ASTM D5185m         >3         0         0         0           Auminum         ppm         ASTM D5185m         >330         1         2         <1           Tin         ppm         ASTM D5185m         >330         1         2         <1           Tin         ppm         ASTM D5185m         >25         5         7         4           Vanadium         ppm         ASTM D5185m         >220         1         <1	Sample Date		Client Info		19 Jun 2024	05 Jun 2023	23 Aug 2022
Filter Age         hrs         Client Info         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         Changed           Sample Status         Client Info         N/A         N/A         N/A         Changed           Sample Status         STM D5185m         >100         8         7         2           Chromium         ppm         ASTM D5185m         >4         0         <1         0           Nickel         ppm         ASTM D5185m         >4         0         <1         0           Nickel         ppm         ASTM D5185m         >3         0         0         0         0           Silver         ppm         ASTM D5185m         >30         1         2         <1         1           Silver         ppm         ASTM D5185m         >20         0         0         0         0         0         1           Visite         NONE         Si         1         1	Machine Age	hrs	Client Info		8274	6742	5252
Oil Changed         Client Info         N/A         N/A         N/A         Changed           Filter Changed         Client Info         N/A         N/A         N/A         N/A         Changed           Sample Status         VIC         N/A         N/A         N/A         N/A         N/A           Iron         ppm         ASTM D5185m         >20         <1         <1         <1           Nickel         ppm         ASTM D5185m         >20         <1         <1         <1           Silver         ppm         ASTM D5185m         >30         0         <1         <1           Silver         ppm         ASTM D5185m         >30         0         0         0           Aluminum         ppm         ASTM D5185m         >30         0         0         0           Vanadium         ppm         ASTM D5185m         >30         0         0         <1           Vanadium         ppm         ASTM D5185m         >15         0         0         <1           Vanadium         ppm         ASTM D5185m         >25         5         7         4           Potassium         ppm         ASTM D5185m         >20         1	Oil Age	hrs	Client Info		0	0	0
Filter Changed Sample Status         Client Info         N/A	Filter Age	hrs	Client Info		0	0	0
Sample Status         NORMAL         NORMAL         NORMAL         NORMAL         NORMAL           Iron         ppm         ASTM D5185m         >100         8         7         2           Chromium         ppm         ASTM D5185m         >20         <1         <1         <1           Nickel         ppm         ASTM D5185m         >20         <1         <1         <1           Silver         ppm         ASTM D5185m         >20         2         3         2           Lead         ppm         ASTM D5185m         >30         0         0         0           Copper         ppm         ASTM D5185m         >30         1         2         <1           Tin         ppm         ASTM D5185m         >30         1         2         <1           Tin         ppm         ASTM D5185m         >15         0         0         0           Vanadium         ppm         ASTM D5185m         >25         5         7         4           Potassium         ppm         ASTM D5185m         >20         1         <1         1           Fuel         WC Method         >0.2         NEG         NEG         NEG         SE	Oil Changed		Client Info		N/A	N/A	Changed
Iron         ppm         ASTM D5185m         >100         8         7         2           Chromium         ppm         ASTM D5185m         >20         <1         <1         <1           Nickel         ppm         ASTM D5185m         >4         0         <1         <1           Silver         ppm         ASTM D5185m         >3         0         0         0           Auminum         ppm         ASTM D5185m         >20         2         3         2           Lead         ppm         ASTM D5185m         >40         0         0         0           Copper         ppm         ASTM D5185m         >30         1         2         1           Tin         ppm         ASTM D5185m         >10         0         0         <1           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Silicon         ppm         ASTM D7185m<>25         5         7         4           Potassium         ppm         ASTM D7185m<>20         1         1         1	Filter Changed		Client Info		N/A	N/A	Changed
Chromium         ppm         ASTM D5185m         >20         <1	Sample Status				NORMAL	NORMAL	NORMAL
Chromium         ppm         ASTM D5185m         >20         <1							
Nickel         ppm         ASTM D5185m         >4         0         <1		ppm		1.00	-	7	_
Titanium         ppm         ASTM D5185m         0         <1		ppm					
Silver         ppm         ASTM D5185m         >3         0         0         0           Aluminum         ppm         ASTM D5185m         >20         2         3         2           Lead         ppm         ASTM D5185m         >20         0         0         0           Copper         ppm         ASTM D5185m         >330         1         2         <1           Tin         ppm         ASTM D5185m         >15         0         0         0         <1           Wanadium         ppm         ASTM D5185m         >15         0         0         0         <1           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Silicon         ppm         ASTM D5185m         >25         5         7         4           Potassium         ppm         ASTM D5185m         >20         1         <1         1           Fuel         WC Method         >5         <1.0         1.7         <1.0         1.7           Fuel         WC Method         >0.2         NEG         NEG         NEG         Sec           Soot %         %         'ASTM D7624         >20 </th <th></th> <th>ppm</th> <th></th> <th>&gt;4</th> <th>-</th> <th></th> <th></th>		ppm		>4	-		
Aluminum         ppm         ASTM D5185m         >20         2         3         2           Lead         ppm         ASTM D5185m         >40         0         0         0         0           Copper         ppm         ASTM D5185m         >330         1         2         <1           Tin         ppm         ASTM D5185m         >15         0         0         0         <1           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Silicon         ppm         ASTM D5185m         >20         1         <1         1         1           Fuel         WC Method         >5         <1.0         1.7         <1.0         Water         WC Method         >0.2         NEG         NEG         NEG           Soot %         %         *ASTM D7624         >3         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1 <td< th=""><th></th><th>ppm</th><th></th><th></th><th></th><th></th><th></th></td<>		ppm					
Lead         ppm         ASTM D5185m         >40         0         0         0         0           Copper         ppm         ASTM D5185m         >330         1         2         <1           Tin         ppm         ASTM D5185m         >15         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         <1         NONE           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Silicon         ppm         ASTM D5185m         >25         5         7         4           Potassium         ppm         ASTM D5185m         >20         1         <1         1           Fuel         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         >0.2         7.4         7.0         4.7           Suffation         Abs/tmm< *ASTM D7624         >3         0.1         0.1         0.1         0.1           Sad/Dirt         scalar         *Visual <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th>÷</th>					-		÷
Copper         ppm         ASTM D5185m         >330         1         2         <1		ppm			_		
Tin         ppm         ASTM D5185m         >15         0         0         0           Vanadium         ppm         ASTM D5185m         >15         0         0         <1           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Silicon         ppm         ASTM D5185m         >225         5         7         4           Potassium         ppm         ASTM D5185m         >225         1         <1         1           Fuel         WC Method         >5         <1.0         1.7         <1.0         N           Water         WC Method         >0.2         NEG         NEG         NEG         SEG           Soot %         %         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/cm< *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/cm         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/cm         *ASTM D7624         >20					-		
Vanadium         ppm         ASTM D5185m         0         0         <1					-		
White Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Silicon         ppm         ASTM D5185m         >25         5         7         4           Potassium         ppm         ASTM D5185m         >20         1         <1         1           Fuel         WC Method         >5         <1.0         1.7         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG           Soot %         %         *ASTM D7844         >3         0.1         0.1         0.1           Nitration         Abs/cm         *ASTM D7844         >30         21.1         21.6         20.1           Silf scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE         NORE           Appearance         scalar         *Visual         NORML         NORML         NORML         NORML           Odor <td< th=""><th></th><th>ppm</th><th></th><th>&gt;15</th><th>-</th><th></th><th></th></td<>		ppm		>15	-		
Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Silicon         ppm         ASTM D5185m         >25         5         7         4           Potassium         ppm         ASTM D5185m         >20         1         <1         1           Fuel         WC Method         >5         <1.0         1.7         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         >0.2         NEG         NEG         NEG           Soot %         %         *ASTM D7844         >3         0.1         0.1         0.1           Nitration         Abs/.mm<*ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/.tmm<*ASTM D7644         >30         21.1         21.6         20.1           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NORE         NORML         NORML         NORML         NORML           Appearance         scalar         *Visual         NORML         NORML         NORML <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Silicon         ppm         ASTM D5185m         >25         5         7         4           Potassium         ppm         ASTM D5185m         >20         1         <1         1           Fuel         WC Method         >5         <1.0         1.7         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         >0.2         NEG         NEG         NEG           Soot %         %         *ASTM D7844         >3         0.1         0.1         0.1           Nitration         Abs/.mm         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/.mm         *ASTM D7644         >30         21.1         21.6         20.1           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NORML         NORML           Appearance         scalar         *Visual         NORML         NORML         NORML         NORML           Odor         scalar         *Visual         NORML         NORML         NORM							
Potassium         ppm         ASTM D5185m         >20         1         <1	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium         ppm         ASTM D5185m         >20         1         <1	Silicon	nom	AGTM D5185m	> 25	5	7	4
Fuel         WC Method         >5         <1.0							
Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG         NEG           Soot %         %         *ASTM D7844         >3         0.1         0.1         0.1           Nitration         Abs/cm         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/cm         NONE         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NORM         NORML         NORML         NORML           Odor         scalar         *Visual         NORML <th></th> <th>ppin</th> <th></th> <th></th> <th>-</th> <th></th> <th></th>		ppin			-		
Glycol         WC Method         NEG         NEG         NEG         NEG           Soot %         %         *ASTM D7844         >3         0.1         0.1         0.1           Nitration         Abs/cm         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/cm         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/cm         *ASTM D7615         >30         21.1         21.6         20.1           Silt         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Appearance         scalar         *Visual         NORML         NORML         NORML         NORML         NORML           Odor         scalar         *Visual         NORML         NORML         NORML         NORML         NORML           Emulsified Water         scalar         *Visual         >0.2         NEG         NEG         NEG           Sodium         ppm         ASTM D5185m         250         403         391         4							
Soot %         %         *ASTM D7844         >3         0.1         0.1         0.1           Nitration         Abs/cm         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/.1mm         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/.1mm         *ASTM D7624         >30         21.1         21.6         20.1           Silt         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NOR         NORML         NORM         NORM         NORMD         NORMD         NORMD				20.2			
Nitration         Abs/cm         *ASTM D7624         >20         7.4         7.0         4.7           Sulfation         Abs/.1mm         *ASTM D7415         >30         21.1         21.6         20.1           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         NORML           Odor         scalar         *Visual         NORML         NORML         NORML         NORML         NORML           Emulsified Water         scalar         *Visual         >0.2         NEG         NEG         NEG           Sodium         ppm         ASTM D5185m         250         403         391         463           Barium         ppm         ASTM D5185m         100         88         98         87           Magnaese         ppm         ASTM D5185m         100         <1         <1         <1	-	%		>3			
Sulfation         Abs/.1mm         *ASTM D7415         >30         21.1         21.6         20.1           Silt         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         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         >0.2         NEG         NEG         NEG           Sodium         ppm         ASTM D5185m         250         403         391         463           Barium         ppm         ASTM D5185m         100         2         0         0           Molybdenum         ppm         ASTM D5185m         100         88         98         87           Magnesium         ppm         ASTM D5185m         3000         1696         1506         1450							
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m>2163100BoronppmASTM D5185m250403391463BariumppmASTM D5185m10020MolybdenumppmASTM D5185m100889887ManganeseppmASTM D5185m3000169615061450PhosphorusppmASTM D5185m3000169610041072ZincppmASTM D5185m1350121712231280SulfurppmASTM D5185m4250308035644111OxidationAbs/.imm*ASTM D7414>2515.517.013.9Base Number (BN)mg KOH/gASTM D28968.57.77.99.1							
Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m>2163100BoronppmASTM D5185m250403391463BariumppmASTM D5185m10020MolybdenumppmASTM D5185m100889887ManganeseppmASTM D5185m3000169615061450PhosphorusppmASTM D5185m3000169610041072ZincppmASTM D5185m1350121712231280SulfurppmASTM D5185m4250308035644111OxidationAbs/.imm*ASTM D7414>2515.517.013.9Base Number (BN)mg KOH/gASTM D28968.57.77.99.1							
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m>2163100BoronppmASTM D5185m250403391463BariumppmASTM D5185m10020MolybdenumppmASTM D5185m100889887ManganeseppmASTM D5185m1008898372CalciumppmASTM D5185m3000169615061450PhosphorusppmASTM D5185m115094610041072ZincppmASTM D5185m1350121712231280SulfurppmASTM D5185m4250308035644111OxidationAbs/.Imm*ASTM D7414>2515.517.013.9Base Number (BN)mg KOH/gASTM D28968.57.77.99.1							
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m>2163100BoronppmASTM D5185m250403391463BariumppmASTM D5185m10020MolybdenumppmASTM D5185m100889887ManganeseppmASTM D5185m0<1<1MagnesiumppmASTM D5185m3000169615061450PhosphorusppmASTM D5185m115094610041072ZincppmASTM D5185m1350121712231280SulfurppmASTM D5185m4250308035644111OxidationAbs/.tmm*ASTM D7414>2515.517.013.9Base Number (BN)mg KOH/gASTM D28968.57.77.99.1							
Odor         scalar         *Visual         NORML         NOR         NOR         NORML         NOR         NORML         NORMU         NORMU         NOR							
Emulsified Water         scalar         *Visual         >0.2         NEG         NEG         NEG           Sodium         ppm         ASTM D5185m         >216         3         10         0           Boron         ppm         ASTM D5185m         250         403         391         463           Barium         ppm         ASTM D5185m         10         0         2         0           Molybdenum         ppm         ASTM D5185m         100         88         98         87           Manganese         ppm         ASTM D5185m         100         88         98         372           Calcium         ppm         ASTM D5185m         450         376         459         372           Calcium         ppm         ASTM D5185m         3000         1696         1506         1450           Phosphorus         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.Imm<*ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM					_		
Sodium         ppm         ASTM D5185m         >216         3         10         0           Boron         ppm         ASTM D5185m         250         403         391         463           Barium         ppm         ASTM D5185m         250         403         391         463           Barium         ppm         ASTM D5185m         10         0         2         0           Molybdenum         ppm         ASTM D5185m         100         88         98         87           Manganese         ppm         ASTM D5185m         100         88         98         372           Calcium         ppm         ASTM D5185m         450         376         459         372           Calcium         ppm         ASTM D5185m         3000         1696         1506         1450           Phosphorus         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.imm<*ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Boron         ppm         ASTM D5185m         250         403         391         463           Barium         ppm         ASTM D5185m         10         0         2         0           Molybdenum         ppm         ASTM D5185m         10         0         2         0           Manganese         ppm         ASTM D5185m         100         88         98         87           Magnesium         ppm         ASTM D5185m         0         <1         <1           Magnesium         ppm         ASTM D5185m         450         376         459         372           Calcium         ppm         ASTM D5185m         3000         1696         1506         1450           Phosphorus         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.imm<*ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5							
Barium         ppm         ASTM D5185m         10         0         2         0           Molybdenum         ppm         ASTM D5185m         100         88         98         87           Manganese         ppm         ASTM D5185m         100         88         98         87           Magnesium         ppm         ASTM D5185m         100         <1         <1           Magnesium         ppm         ASTM D5185m         450         376         459         372           Calcium         ppm         ASTM D5185m         3000         1696         1506         1450           Phosphorus         ppm         ASTM D5185m         1150         946         1004         1072           Zinc         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.tmm<*ASTM D7414<>25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.7         7.9         9.1	Sodium	ppm	ASTM D5185m	>216	3	10	0
Molybdenum         ppm         ASTM D5185m         100         88         98         87           Manganese         ppm         ASTM D5185m         100         <1         <1           Magnesium         ppm         ASTM D5185m         450         376         459         372           Calcium         ppm         ASTM D5185m         3000         1696         1506         1450           Phosphorus         ppm         ASTM D5185m         1150         946         1004         1072           Zinc         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.7         7.9         9.1	Boron	ppm	ASTM D5185m	250	403	391	463
Manganese         ppm         ASTM D5185m         0         <1	Barium	ppm	ASTM D5185m	10	0	2	0
Magnesium         ppm         ASTM D5185m         450 <b>376</b> 459         372           Calcium         ppm         ASTM D5185m         3000 <b>1696</b> 1506         1450           Phosphorus         ppm         ASTM D5185m         1150 <b>946</b> 1004         1072           Zinc         ppm         ASTM D5185m         1350 <b>1217</b> 1223         1280           Sulfur         ppm         ASTM D5185m         4250 <b>3080</b> 3564         4111           Oxidation         Abs/.1mm<*ASTM D7414         >25 <b>15.5</b> 17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5 <b>7.7</b> 7.9         9.1	Molybdenum	ppm	ASTM D5185m	100	88	98	87
Calcium         ppm         ASTM D5185m         3000         1696         1506         1450           Phosphorus         ppm         ASTM D5185m         1150         946         1004         1072           Zinc         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.tmm         *ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.7         7.9         9.1	Manganese	ppm	ASTM D5185m		0	<1	<1
Phosphorus         ppm         ASTM D5185m         1150         946         1004         1072           Zinc         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.tmm         *ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.7         7.9         9.1	Magnesium	ppm	ASTM D5185m	450	376	459	372
Zinc         ppm         ASTM D5185m         1350         1217         1223         1280           Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.tmm         *ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.7         7.9         9.1	Calcium	ppm	ASTM D5185m	3000	1696	1506	
Sulfur         ppm         ASTM D5185m         4250         3080         3564         4111           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.7         7.9         9.1	Phosphorus	ppm	ASTM D5185m	1150	946	1004	1072
Oxidation         Abs/.1mm         *ASTM D7414         >25         15.5         17.0         13.9           Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.7         7.9         9.1	Zinc	ppm	ASTM D5185m	1350	1217	1223	1280
Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.7         7.9         9.1	Sulfur	ppm	ASTM D5185m	4250	3080	3564	4111
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	17.0	13.9
Visc @ 100°C cSt ASTM D445 14.4 ( 12.7 ) 12.4 14.2		mg KOH/g	ASTM D2896		7.7		
	Visc @ 100°C	cSt	ASTM D445	14.4	12.7	12.4	14.2



 Certificate 12367
 Test Package
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 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)

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