

**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

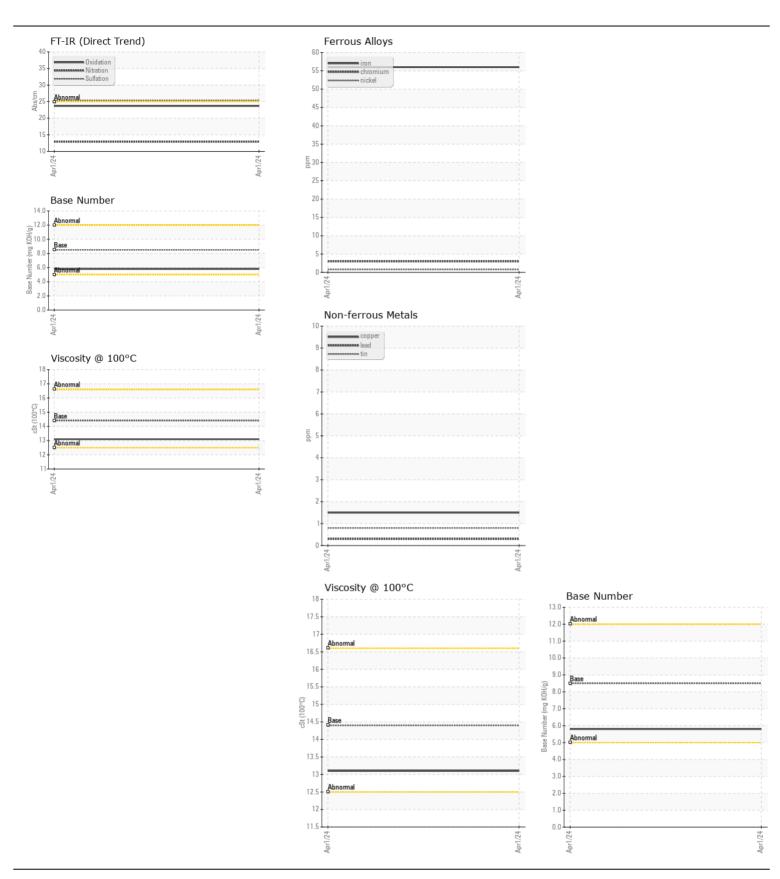
## MSE-AL-TRACTOR (NEW SOUTH EXPRESS)

## **AUTOCAR NSE21012**

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Resample at the next service interval to monitor. The fluid was not perceited, however, if fluid match indicates that his fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.    Name	DIESEL ENGINE OIL SAE 40 ( GAL)							
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.    Machine Age   Mis   Client Info   10269	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	Historv2
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.    Collant Info	Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC)						,	,
Machine Age								
Oil Age			mls					
Filter Age		•						
Oil Changed   Cilent Info   Changed   Change				Client Info		0		
Normal   N		_		Client Info		Changed		
Normal   N		•		Client Info				
Iron		Sample Status				_		
Metal levels are typical for a new component breaking in.   Nickel ppm ASTM 05185m   > 4								
Nickel   ppm   ASTM D5185m   >4   <1	WEAR		ppm					
Titanium   ppm   ASTM 05185m   <1	Metal levels are typical for a new component breaking in.			ASTM D5185m	>20	3		
Silver   ppm   ASTM D5185m   >20   20			ppm		>4	<1		
Aluminum   ppm   ASTM DS186m   >20   20			ppm					
Lead			ppm					
Copper		Aluminum	ppm			20		
Tin   ppm   ASTM D5185m   <1			ppm		-			
Vanadium   ppm   ASTM D5185m   <1			ppm			2		
White Metal   Scalar   Visual   NONE   NON			ppm		>15			
Vellow Metal   Scalar   Visual   NONE   NONE           NONE								
Silicon   ppm   ASTM D5185m   >25   7			scalar					
Potassium   ppm   ASTM D5185m   >20   34		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium   ppm   ASTM D5185m   >20   34	CONTAMINATION	Silioon	nnm	ACTM DE105m	× 25	7		
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.   FLUID CONDITION   The Condition of the oil is suitable for further service.   Fuel   WC Method   NEG	CONTAININATION		• • • • • • • • • • • • • • • • • • • •		-			
Water   WC Method   Solution   Water   WC Method   Solution   Water   WC Method   WC Met	your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no		ррпп					
Solitation of any contamination in the oil.   Glycol   Soot %   %   "ASTM D7844   3   1.7								
Soot %					70.L			
Nitration   Abs/cm   *ASTM D7624   >20   12.9		•	%		<b>\3</b>			
Sulfation   Abs/.tmm   *ASTM D7415   >30   25.3								
Silt   scalar *Visual   NONE   NONE   NONE   Sand/Dirt   scalar *Visual   NONE   Sand/Dirt   Scalar *Visual   NONE   Scalar *Visual   NORML   NORML   Scalar *Visual   NORML   Scalar *Visual * NORML   Scalar *Visual								
Debris   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NORML   NORML   Scalar   *Visual   NORML   NORML   Scalar   *Visual   NORML   NORML   Scalar   *Visual   NORML   NORML   Scalar   *Visual   NORML   *Visual   NORML   *Visual   NORML   *Visual   NORML   *Visual   *Visual   NORML   *Visual   *Visual   NORML   *Visual   *Vi								
Sand/Dirt   scalar   *Visual   NONE   NONE   NORML								
Appearance								
Codor   Scalar *Visual   NORML   Emulsified Water   Scalar *Visual   Visual   Visu		Appearance	scalar					
Sodium   ppm   ASTM D5185m   >216   1           Boron   ppm   ASTM D5185m   250   2           Barium   ppm   ASTM D5185m   10   2           Molybdenum   ppm   ASTM D5185m   100   60           Magnesium   ppm   ASTM D5185m   100   60           Magnesium   ppm   ASTM D5185m   450   899           Calcium   ppm   ASTM D5185m   3000   1070           Phosphorus   ppm   ASTM D5185m   1350   1181           Sulfur   ppm   ASTM D5185m   4250   2854           Oxidation   Abs/.1mm   *ASTM D7414   >25   23.7           Base Number (BN)   mg KOHg   ASTM D2896   8.5   5.8		• •	scalar					
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   10   2		<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
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   10   2								
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   100   60	FLUID CONDITION		ppm					
oil. The condition of the oil is suitable for further service.    Molybdenum   ppm   ASTM D5185m   100   60         Manganese   ppm   ASTM D5185m   1         Magnesium   ppm   ASTM D5185m   450   899         Calcium   ppm   ASTM D5185m   3000   1070         Phosphorus   ppm   ASTM D5185m   1150   987         Zinc   ppm   ASTM D5185m   1350   1181         Sulfur   ppm   ASTM D5185m   4250   2854         Oxidation   Abs/.1mm   *ASTM D7414   >25   23.7         Base Number (BN)   mg KOH/g   ASTM D2896   8.5   5.8	, ,							
Manganese         ppm         ASTM D5185m         1             Magnesium         ppm         ASTM D5185m         450         899             Calcium         ppm         ASTM D5185m         3000         1070             Phosphorus         ppm         ASTM D5185m         1150         987             Zinc         ppm         ASTM D5185m         1350         1181             Sulfur         ppm         ASTM D5185m         4250         2854             Oxidation         Abs/.1mm         *ASTM D7414         >25         23.7             Base Number (BN)         mg KOH/g         ASTM D2896         8.5         5.8			• • • • • • • • • • • • • • • • • • • •					
Magnesium         ppm         ASTM D5185m         450         899             Calcium         ppm         ASTM D5185m         3000         1070             Phosphorus         ppm         ASTM D5185m         1150         987             Zinc         ppm         ASTM D5185m         1350         1181             Sulfur         ppm         ASTM D5185m         4250         2854             Oxidation         Abs/.1mm         *ASTM D7414         >25         23.7             Base Number (BN)         mg KOH/g         ASTM D2896         8.5         5.8		•			100			
Calcium         ppm         ASTM D5185m         3000         1070             Phosphorus         ppm         ASTM D5185m         1150         987             Zinc         ppm         ASTM D5185m         1350         1181             Sulfur         ppm         ASTM D5185m         4250         2854             Oxidation         Abs/.1mm         *ASTM D7414         >25         23.7             Base Number (BN)         mg KOH/g         ASTM D2896         8.5         5.8					450			
Phosphorus         ppm         ASTM D5185m         1150         987             Zinc         ppm         ASTM D5185m         1350         1181             Sulfur         ppm         ASTM D5185m         4250         2854             Oxidation         Abs/.1mm         *ASTM D7414         >25         23.7             Base Number (BN)         mg KOH/g         ASTM D2896         8.5         5.8		•						
Zinc         ppm         ASTM D5185m         1350         1181             Sulfur         ppm         ASTM D5185m         4250         2854             Oxidation         Abs/.1mm         *ASTM D7414         >25         23.7             Base Number (BN)         mg KOH/g         ASTM D2896         8.5         5.8								
Sulfur         ppm         ASTM D5185m         4250         2854             Oxidation         Abs/.1mm         *ASTM D7414         >25         23.7             Base Number (BN)         mg KOH/g         ASTM D2896         8.5         5.8								
Oxidation         Abs/.1mm         *ASTM D7414         >25         23.7             Base Number (BN)         mg KOH/g         ASTM D2896         8.5         5.8			• • • • • • • • • • • • • • • • • • • •					
Base Number (BN)         mg KOH/g         ASTM D2896         8.5         5.8								
VISC @ 100 C CSt ASTWID443 14.4 13.1		, ,						
		VISC @ 100 C	COL	MOTIVI D440	17.4	13.1		







Certificate L2367

Laboratory

Sample No.

: NL0002043 Lab Number : 06149773 Unique Number : 10979851 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested** : 17 Apr 2024

Diagnosed : 17 Apr 2024 - Wes Davis **KIRK NATIONALEASE - SHOP 49** 601 England Rd. Lincoln, AL

US 35096 Contact: Skip Womack shop49@knl.cc

T: (205)548-3004 F: (205)548-3006

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)