

WEAR CONTAMINATION FLUID CONDITION

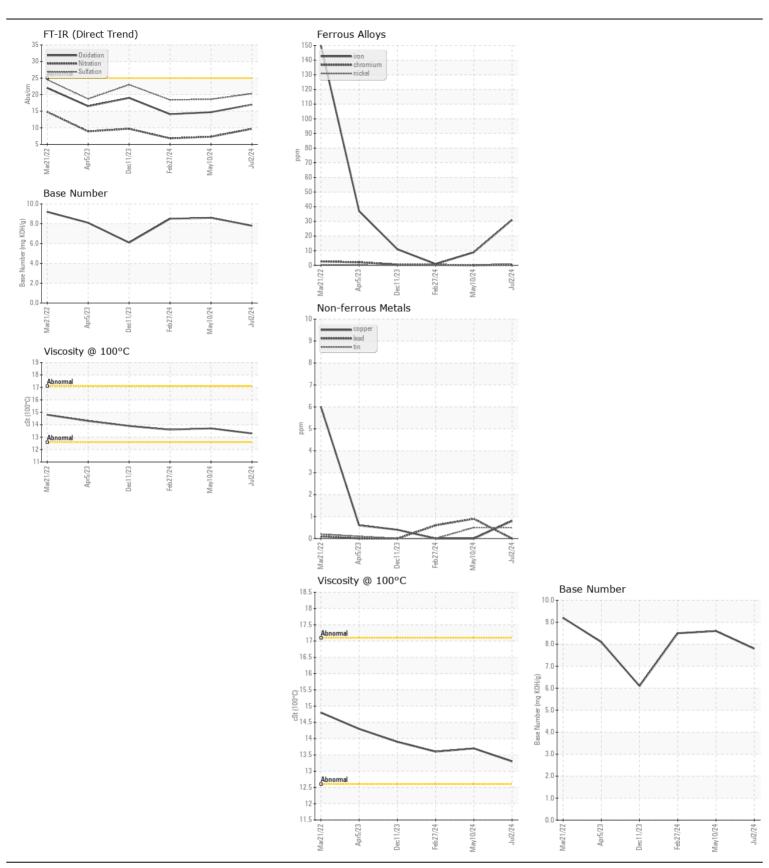
NORMAL NORMAL NORMAL

MSE-AL-TRACTOR (NEW SOUTH EXPRESS)

AUTOCAR NSE21008

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		NL0002280	NL0002290	NL0002155
	Sample Date		Client Info		02 Jul 2024	10 May 2024	27 Feb 2024
	Machine Age	hrs	Client Info		16479	14389	14389
	Oil Age	hrs	Client Info		1055	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	31	9	<1
	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	4	4
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		<1	0	0
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:1:		AOTM DE405	05		4	
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		5 11	6	2
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	0.7	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624		9.7	7.3	6.8
	Sulfation	Abs/.1mm	*ASTM D7415		20.3	18.6	18.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUD CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	5
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		2	2	5
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		54	59	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		874	934	1046
	Calcium	ppm	ASTM D5185m		1005	1020	1185
	Phosphorus	ppm	ASTM D5185m		1068	1064	1150
	Zinc	ppm	ASTM D5185m		1236	1240	1412
	Sulfur Oxidation	ppm Abo/1mm	ASTM D5185m	. 25	4167	3530	3459
	Cixidation	Abs/.1mm	*ASTM D7414	>25	17.0	14.7	14.1
	Base Number (BN)		ASTM D2896		7.8	8.6	8.5







Certificate L2367

Laboratory Sample No.

: NL0002280 Lab Number : 06231880 Unique Number : 11115373 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Jul 2024

Tested : 10 Jul 2024 : 10 Jul 2024 - Wes Davis Diagnosed

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)

KIRK NATIONALEASE - SHOP 49