

OIL ANALYSIS REPORT

NSE-AL-TRACTOR (NEW SOUTH EXPRESS) [NSE21003] **AUTOCAR NSE21003** Component

Diesel Engine Fluic

Diesel Engine Oil (--- GAL)

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on 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.



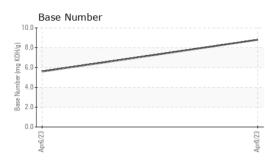
Sample Rating Trend

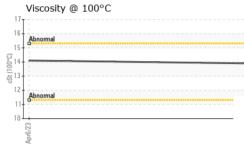


			Apr2023	Apr2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NL0001754	NL0001532	
Sample Date		Client Info		08 Apr 2023	06 Apr 2023	
Machine Age	hrs	Client Info		10731	7678	
Oil Age	hrs	Client Info		1945	1555	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	70	
Chromium	ppm	ASTM D5185m	>20	<1	3	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	17	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	0	1	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	0	
Barium	ppm	ASTM D5185m		2	0	
Molybdenum	ppm	ASTM D5185m		56	59	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		870	909	
Calcium	ppm	ASTM D5185m		1021	1046	
Phosphorus	ppm	ASTM D5185m		922	968	
Zinc	ppm	ASTM D5185m		1137	1198	
Sulfur	ppm	ASTM D5185m		3113	2561	
CONTAMINANTS		method	limit/base	current	historv1	historv2
			. 95	2	6	
Silicon	ppm	ASTM D5185m	>25	3	6 2	
Sodium	ppm	ASTM D5185m	. 00	0		
Potassium	ppm	ASTM D5185m	>20	6	19	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	2	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	12.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	23.9	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	22.7	
					= 0	
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	5.6	

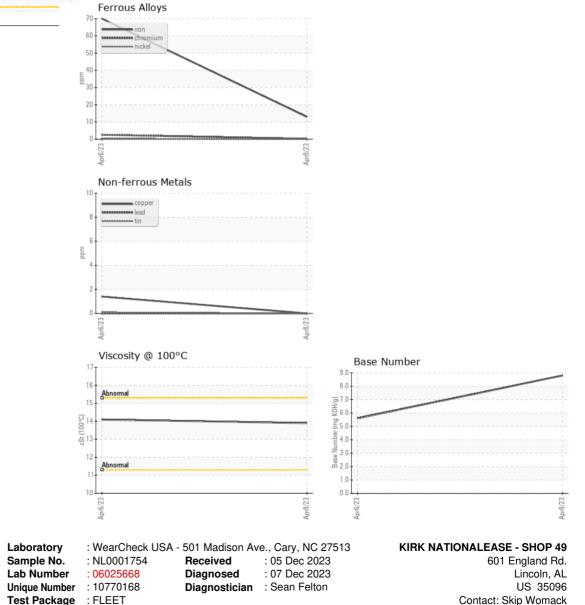


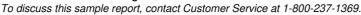
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		13.9	14.1	
GRAPHS						





* - 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)

Certificate L2367

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