

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

NSE-AL-TRACTOR (NEW SOUTH EXPRESS) Machine Id AUTOCAR NSE21013 Diesel Engine

DIESEL ENGINE OIL SAE 40 (17 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Descende at the sector interview later and its market at the	Sample Number		Client Info		NL0002284	NL0002150	NL0001930
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		19 Jun 2024	02 Apr 2024	20 Dec 2023
brand, type, and viscosity of the on off your next sample.	Machine Age	hrs	Client Info		12614	11890	10270
	Oil Age	hrs	Client Info		1010	1493	3327
	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
WEAR	Iron	ppm	ASTM D5185m	>100	46	53	30
	Chromium	ppm	ASTM D5185m	>20	2	3	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	9	3
	Lead	ppm	ASTM D5185m		1	<1	0
	Copper	ppm	ASTM D5185m		1	2	<1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m	10	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>\</u> 25	4	6	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		5	12	7
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method	>20		<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	.2	1.5	1.7	1.3
	Nitration	Abs/cm	*ASTM D7624	>20	1.5	13.6	12.0
	Sulfation	Abs/.1mm	*ASTM D7024		24.5	26.2	26.7
	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
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	<1	2
The DN regult indicates that there is quitchle alkelinity remaining in the	Boron	ppm	ASTM D5185m	250	4	6	65
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	0	1	0
	Molybdenum	ppm	ASTM D5185m	100	60	57	4
	Manganese	ppm	ASTM D5185m		1	1	<1
	Magnesium	ppm	ASTM D5185m	450	942	842	96
	Calcium	ppm	ASTM D5185m	3000	1221	1173	1991
	Phosphorus	ppm	ASTM D5185m	1150	1070	980	886
	Zinc	ppm	ASTM D5185m	1350	1340	1171	1118
	Sulfur	ppm	ASTM D5185m	4250	3506	2884	3060
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.0	25.0	23.6
		1/011/	LOTH DOGO	o =			= 0

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

5.6

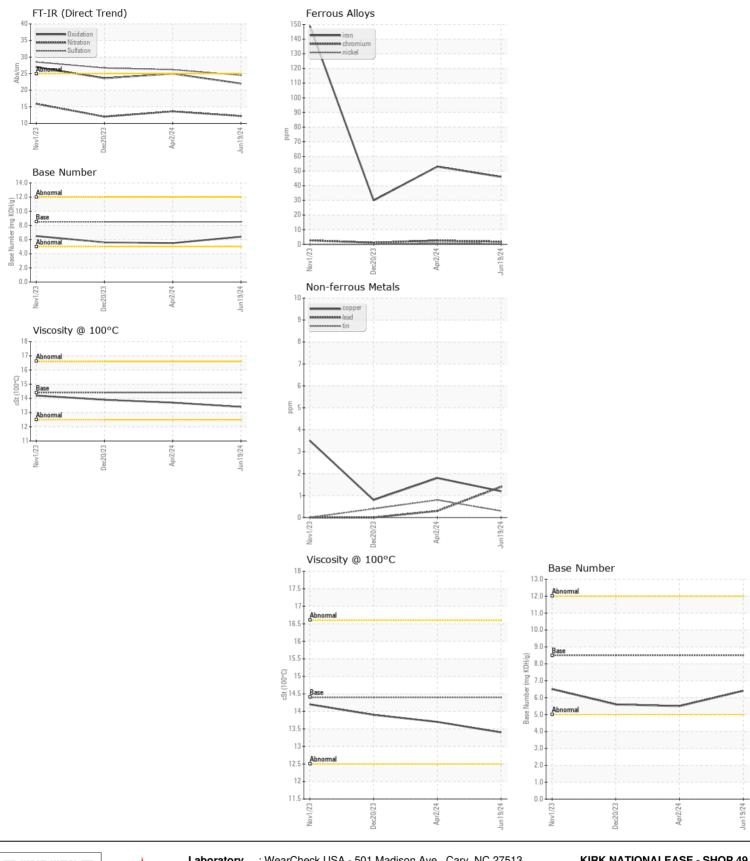
13.9

5.5

13.7

6.4

13.4



KIRK NATIONALEASE - SHOP 49 Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : NL0002284 Received : 24 Jun 2024 601 England Rd. Lincoln, AL Lab Number : 06219033 Tested : 25 Jun 2024 Diagnosed Unique Number : 11097230 : 25 Jun 2024 - Wes Davis US 35096 Test Package : FLEET Contact: Skip Womack Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. shop49@knl.cc * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (205)548-3004

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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