

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

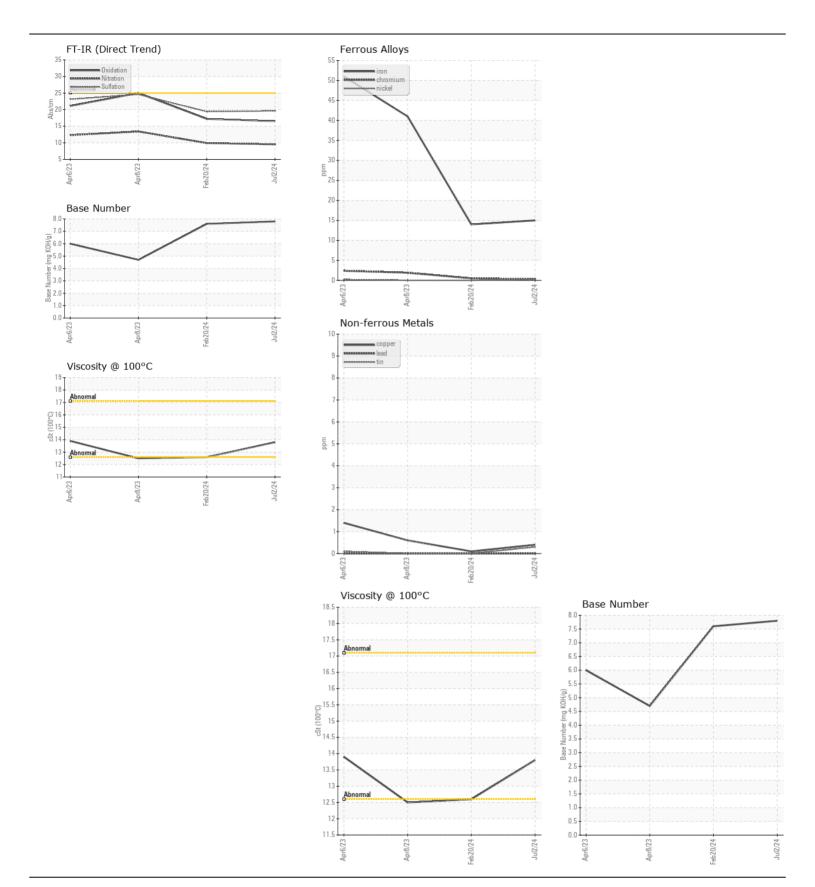
MSE-AL-TRACTOR (NEW SOUTH EXPRESS)

AUTOCAR NSE21002

Diesel Engine

PETRO CANADA 15W40 (17 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
NECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	NL0002281		NL0001753
Resample at the next service interval to monitor.	Sample Date		Client Info		02 Jul 2024	20 Feb 2024	08 Apr 202
	Machine Age	hrs	Client Info		13466	11514	10405
	Oil Age	hrs	Client Info		607	10405	2878
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VE A D							
VEAR	Iron	ppm	ASTM D5185m		15	14	41
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	2
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m	0	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	7
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	3	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	<1	2
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	0.9	1.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.9	13.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.4	24.6
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	0
-	Boron	ppm	ASTM D5185m		2	4	0
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		0	0	2
	Molybdenum	ppm	ASTM D5185m		54	54	54
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		873	981	802
	Calcium	ppm	ASTM D5185m		990	1153	952
	Phosphorus	ppm	ASTM D5185m		1048	1091	843
	Zinc	ppm	ASTM D5185m		1230	1266	1050
	Sulfur	ppm	ASTM D5185m		3557	3309	2712
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	17.2	25.0
	Base Number (BN)				7.8	7.6	4.7
		0 9			_		







Certificate L2367

Laboratory Sample No.

: NL0002281 Lab Number : 06231882 Unique Number : 11115375 Test Package : FLEET

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

: 10 Jul 2024 Diagnosed

: 10 Jul 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)