

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

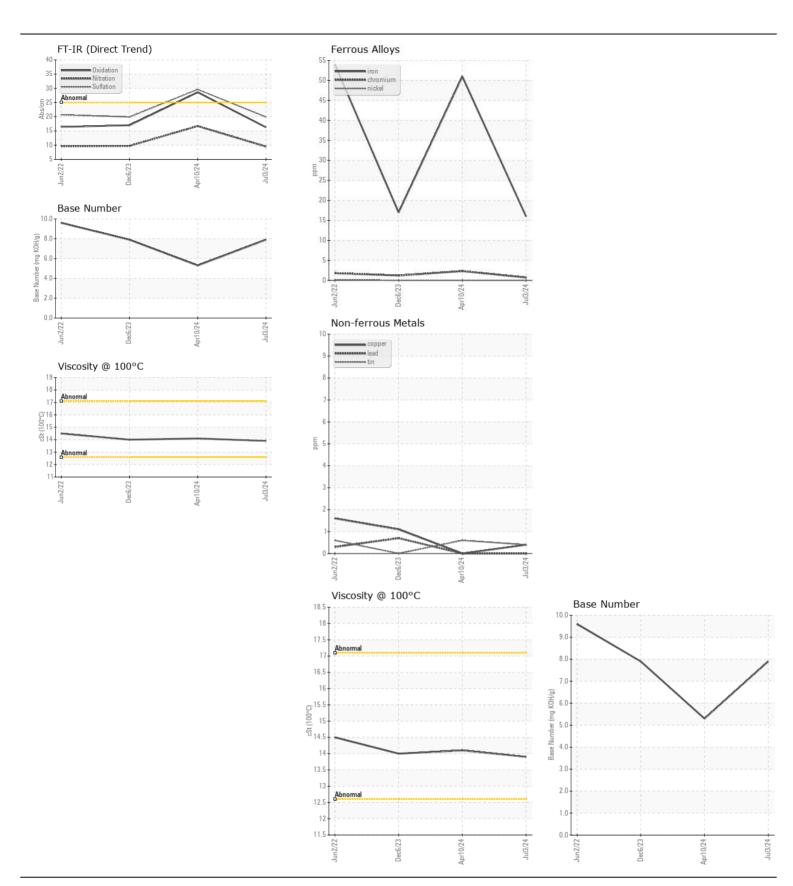
MSE-AL-TRACTOR (NEW SOUTH EXPRESS)

AUTOCAR NSE21006

Diesel Engine

PETRO CANADA 15W40 (17 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		NL0002207	NL0002235	NL0001749
	Sample Date		Client Info		03 Jul 2024	10 Apr 2024	06 Dec 202
	Machine Age	hrs	Client Info		13097	11986	10157
	Oil Age	hrs	Client Info		598	1829	0
	Filter Age	hrs	Client Info		598	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	16	51	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	2	1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	5	13	6
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	0	1
	Tin	ppm	ASTM D5185m	>15	<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	Silicon	ppm	ASTM D5185m	>25	4	6	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	3	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.9	2.6	1
	Nitration	Abs/cm	*ASTM D7624		9.5	16.7	9.7
	Sulfation	Abs/.1mm	*ASTM D7415		19.9	29.6	19.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE NORML	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
	Lindisined Water		• 13uai	70.2			INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		2	3	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		57	62	59
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		922	906	974
	Calcium	ppm	ASTM D5185m		1041	1030	1026
	Phosphorus	ppm	ASTM D5185m		1084	1010	1027
	Zinc	ppm	ASTM D5185m		1292	1195	1291
	Sulfur Oxidation	ppm Abc/ 1mm	*ASTM D5185m	> 2F	3684 16.3	2969 28.6	3027 17.0
	Base Number (BN)	Abs/.1mm mg KOH/g	ASTM D7414 ASTM D2896	>20	7.9	5.3	7.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06231884 Unique Number : 11115377

: NL0002207 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)