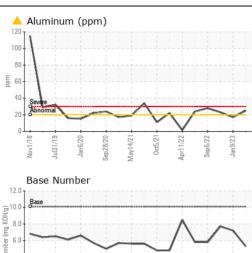
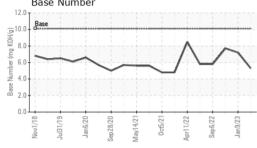
**WEAR** CONTAMINATION **FLUID CONDITION** 

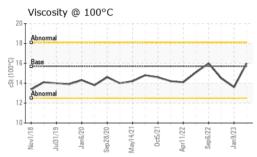
**ABNORMAL** NORMAL **NORMAL** 

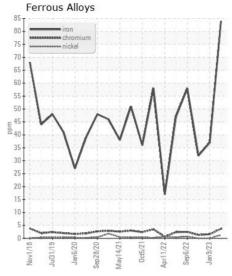
## **INTERNATIONAL 7150**

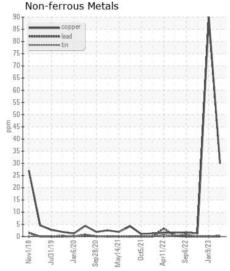
Component Diesel Engine							
SHELL ROTELLA T 15W40 (18 QTS)							
RECOMMENDATION  Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0691322		WC0691420
	Sample Date		Client Info		26 Apr 2023	09 Jan 2023	09 Nov 2022
	Machine Age	mls	Client Info		434932	412549	401036
	Oil Age	mls	Client Info		0	11512	13840
	Filter Age	mls	Client Info		0	11512	13840
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>130	84	37	32
	Chromium	ppm	ASTM D5185m	>10	4	2	1
The aluminum level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	1	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<b>4</b> 25	17	<u>^</u> 23
	Lead	ppm	ASTM D5185m	>20	0	0	0
	Copper	ppm	ASTM D5185m	>125	30	90	1
	Tin	ppm	ASTM D5185m	>4	<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	nnm	ASTM D5185m	- 25	8	7	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	3	4
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>&gt;</i> 0.∠	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	2.5	1.6	1.3
	Nitration	Abs/cm	*ASTM D7624	>20	16.7	12.5	13.3
	Sulfation	Abs/.1mm			33.2	25.6	28.8
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
ELLUD CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	040	4	0	0
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		35	51	38
	Barium	ppm		0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	1.2	84	62	67
	Manganese	ppm	ASTM D5185m	0.4	1	<1	<1
	Magnesium Calcium	ppm	ASTM D5185m		526 2257	340	368
	Phosphorus	ppm	ASTM D5185m		2357	1860 971	2107 1078
	Zinc	ppm	ASTM D5185m ASTM D5185m		1255 1620	1174	1315
	Sulfur	ppm	ASTM D5185m		3580	2894	4010
	Oxidation	Abs/.1mm	*ASTM D7414		32.9	22.3	25.8
	Base Number (BN)				5.3	7.2	7.7
	Visc @ 100°C	cSt	ASTM D2090		16.0	13.6	14.5
	V130 @ 100 0	COL	AO INI DA40	10.7	10.0	10.0	17.5

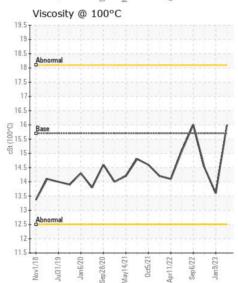


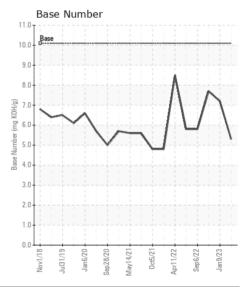














Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WC0691322 : 05840420 : 10459223

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 08 May 2023 Recieved Diagnosed : 10 May 2023 : Jonathan Hester Diagnostician

**CARCO TRANSPORTATION** 415 S WESTERN AVENUE

OKLAHOMA CITY, OK US 73109

Contact: VICTOR STACHONIAK

victors@carcotrans.com T: (405)239-2555

\* - 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)

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