**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL MARGINAL NORMAL** 

Machine Id 4481L

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	Lictory?
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	IL06175099	-	History2 IL0032500
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		12 Apr 2024	23 Jan 2024	05 Oct 2023
	Machine Age	mls	Client Info		0	243126	226492
	Oil Age	mls	Client Info		15000	15000	15000
	Filter Age	mls	Client Info		0	15000	15000
	Oil Changed	11110	Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				MARGINAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	23	41	41
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	3	7	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	2	2
	Tin	ppm	ASTM D5185m	>15	0	<1	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	<b>&gt;25</b>	3	7	5
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	4	5
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524		<u> </u>	<1.0	<1.0
	Water	, ,	WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	1	0.6
	Nitration	Abs/cm	*ASTM D7624		10.7	15.5	12.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	29.7	28.7
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<158	1	1	0
TEOID CONDITION	Boron	ppm	ASTM D5185m		0	2	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	4
	Molybdenum	ppm	ASTM D5185m		65	64	66
	Manganese	ppm	ASTM D5185m	100	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1029	1043	946
	Calcium	ppm	ASTM D5185m		1170	1133	1113
	Phosphorus	ppm	ASTM D5185m		1083	1125	904
	Zinc	ppm	ASTM D5185m		1307	1423	1256
	Sulfur	ppm	ASTM D5185m		3495	3266	3275
	Outdetten	Alan / dua ···	*ACTM D7444	05	01.00	01.0	00.5

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14.4

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

31.0

4.6

14.0

21.6

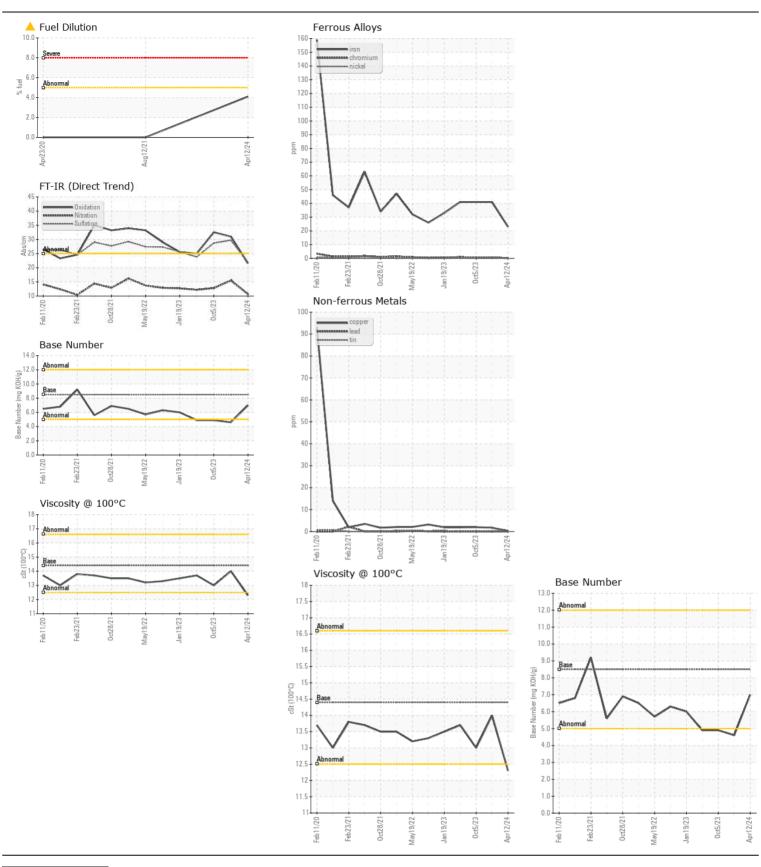
7.0

12.3

32.5

4.9

13.0







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : IL06175099 Lab Number : 06175099

Unique Number : 11021152

Received : 10 May 2024 **Tested** : 15 May 2024 Diagnosed

: 15 May 2024 - Wes Davis

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.

Test Package: FLEET (Additional Tests: FUELDILUTION, PercentFuel)

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

F: (708)496-8818

**RUSH TRUCK CENTER - CHICAGO IDEALEASE** 

4655 SOUTH CENTRAL AVENUE

linleym@rushtruckcenters.com

CHICAGO, IL

Contact: MIKE LINLEY

T: (708)496-7500

US 60638