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## Machine Id 3636L nponen **Diesel Engine** DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number		Client Info		IL06175112	IL0032381	IL0025818
We advise that you check the fuel injection next service interval to monitor.	on system. Resample at the	Sample Date		Client Info		13 Apr 2024	08 Sep 2023	11 Mar 2023
next service interval to monitor.		Machine Age	mls	Client Info		0	76401	61930
		Oil Age	mls	Client Info		15000	0	0
		Filter Age	mls	Client Info		0	0	0
		Oil Changed		Client Info		N/A	Changed	Changed
		Filter Changed		Client Info		N/A	N/A	N/A
		Sample Status				ABNORMAL	ABNORMAL	SEVERE
				100		45	0.0	
WEAR		Iron	ppm	ASTM D5185m		59	45	62
All component wear rates are normal.		Chromium	ppm	ASTM D5185m		1	<1	2
•		Nickel	ppm	ASTM D5185m	>4	0	0	<1
		Titanium	ppm	ASTM D5185m	0	0	0	0
		Silver	ppm	ASTM D5185m		0	0	0 46
		Aluminum	ppm	ASTM D5185m		35	26	
		Lead	ppm	ASTM D5185m		0	0	0
		Copper	ppm	ASTM D5185m		1		
		Tin	ppm	ASTM D5185m	>15	0	<1	<1
		Vanadium	ppm	ASTM D5185m		-		<1
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	6	10	
		Potassium	ppm	ASTM D5185m		44	38	94
There is a moderate amount of fuel prese	assium (K) levels in your metals	Fuel	%	ASTM D3524		<b>7</b> .1	▲ 5.8	▲ 8.4
		Water		WC Method	>0.2	NEG	NEG	NEG
analysis are likely a result of solder flux r common on new equipment/components		Glycol		WC Method		NEG	NEG	NEG
common on new equipment components		Soot %	%	*ASTM D7844	>3	1.4	1.4	1.5
		Nitration	Abs/cm	*ASTM D7624	>20	13.4	12.3	13.2
		Sulfation	Abs/.1mm	*ASTM D7415	>30	28.8	28.4	31.0
		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	
		Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
						•		
FLUID CONDITION		Sodium	ppm	ASTM D5185m		3	1	2
Fuel is present in the oil and is lowering t	s ,	Boron	ppm	ASTM D5185m		27	0	4
indicates that there is suitable alkalinity re		Barium	ppm		10	0	0	0
		Molybdenum	ppm	ASTM D5185m	100	39	60	53
		Manganese	ppm	ASTM D5185m	450	1	<1	2
		Magnesium	ppm	ASTM D5185m		476	955	795
		Calcium	ppm	ASTM D5185m	3000	1522	1036	1135
		Phosphorus	ppm	ASTM D5185m	1150	679	930	788

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

1201

3229

30.6

6.0

12.2

1044

33.6

5.3

11.6

2774

793

2318

36.1

5.0

11.2

ASTM D5185m 1350

14.4

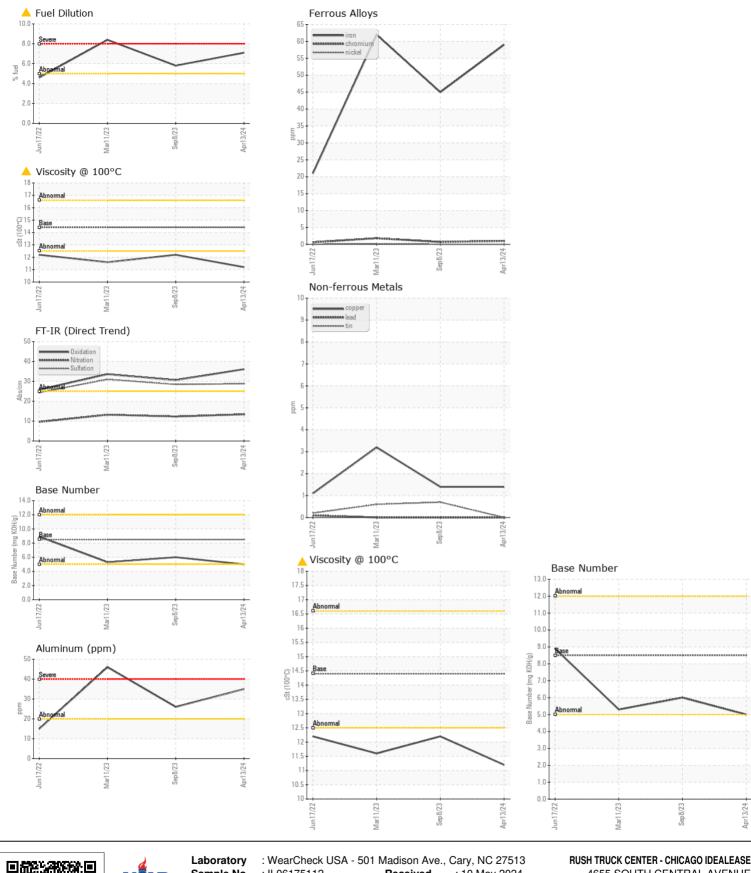
ppm ASTM D5185m 4250

Abs/.1mm \*ASTM D7414 >25

ASTM D445

ppm

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



**RUSH TRUCK CENTER - CHICAGO IDEALEASE** Received 4655 SOUTH CENTRAL AVENUE Sample No. : IL06175112 : 10 May 2024 Lab Number : 06175112 CHICAGO, IL Tested : 15 May 2024 : 15 May 2024 - Don Baldridge US 60638 Unique Number : 11021165 Diagnosed Test Package : FLEET ( Additional Tests: PercentFuel ) Contact: MIKE LINLEY Certificate L2367 linleym@rushtruckcenters.com 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. T: (708)496-7500 F: (708)496-8818 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MIKE LINLEY - IDECHIL Page 2 of 2