WEAR CONTAMINATION **FLUID CONDITION**

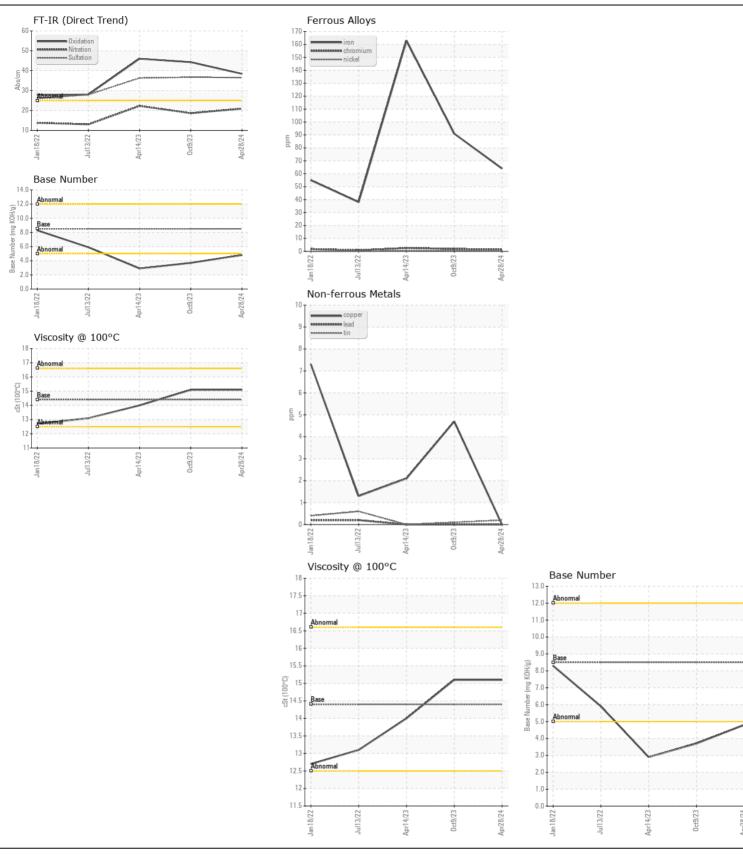
NORMAL NORMAL NORMAL

Machine Id

4593L

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		IL0034325	IL0032391	IL002884
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		28 Apr 2024	09 Oct 2023	14 Apr 202
	Machine Age	mls	Client Info		98204	85892	69213
	Oil Age	mls	Client Info		15000	0	0
	Filter Age	mls	Client Info		15000	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	ABNORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>100	64	91	163
	Chromium	ppm	ASTM D5185m	>20	1	2	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		11	20	23
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		0	5	2
	Tin	ppm	ASTM D5185m		<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	5	8	8
	Potassium	ppm	ASTM D5185m		16	38	37
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	2.4	1.5	2.1
	Nitration	Abs/cm	*ASTM D7624	>20	20.9	18.6	22.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	36.5	36.7	36.3
	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	>158	2	2	3
	Boron	ppm	ASTM D5185m		2	<1	2
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	0
	Molybdenum	ppm	ASTM D5185m		64	67	55
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m	450	960	1014	925
	Calcium	ppm	ASTM D5185m		1093	1085	1120
	Phosphorus	ppm	ASTM D5185m		1047	1033	991
	Zinc	ppm	ASTM D5185m		1248	1293	1243
	Sulfur	ppm	ASTM D5185m		3256	3260	2899
	Oxidation	Abs/.1mm	*ASTM D7414		38.4	44.3	46.0
	Base Number (BN)		ASTM D2896		4.8	△ 3.7	<u>^</u> 2.9
		0					







Certificate L2367

Sample No.

Laboratory

: IL0034325 Lab Number : 06175158 Unique Number : 11021211 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024 **Tested**

: 11 May 2024 Diagnosed : 13 May 2024 - Don Baldridge

RUSH TRUCK CENTER - CHICAGO IDEALEASE 4655 SOUTH CENTRAL AVENUE

CHICAGO, IL US 60638

Contact: MIKE LINLEY

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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) F: (708)496-8818