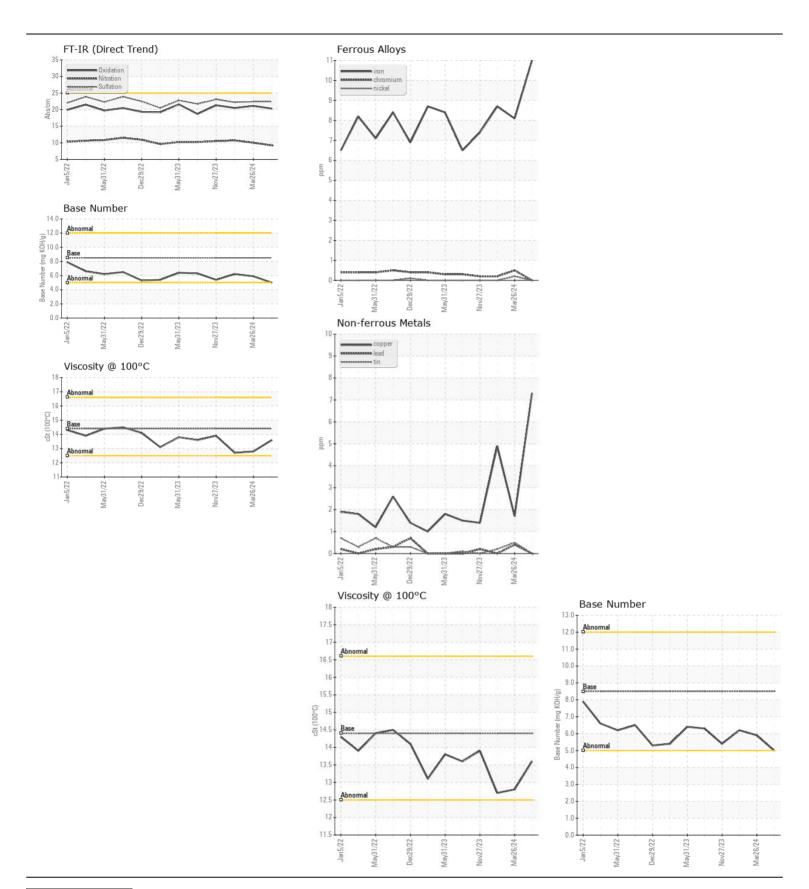
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

1710
Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEGOMMENDATION	Sample Number	00.01	Client Info	Little	WC0887559	HRE0000121	WC0844967
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		29 May 2024		02 Feb 2024
	Machine Age	mls	Client Info		0	221593	216320
	Oil Age	mls	Client Info		0	6000	6000
	Filter Age	mls	Client Info		0	6000	6000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD			AOTM DE LOS	400			
WEAR	Iron	ppm	ASTM D5185m		11	8	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m	0	<1	2	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum Lead	ppm	ASTM D5185m ASTM D5185m		0	2 <1	0
		ppm	ASTM D5185m		7	2	5
	Copper Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			Visuai	NONE			INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	9	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	2
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.0	10.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.4	22.2
	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
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	4
TEGID CONDITION	Boron	ppm	ASTM D5185m		120	110	14
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	10
	Molybdenum	ppm	ASTM D5185m		72	68	61
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m	450	387	334	328
	Calcium	ppm	ASTM D5185m		1487	1541	1586
	Phosphorus	ppm	ASTM D5185m	1150	959	998	961
	Zinc	ppm	ASTM D5185m		1180	1104	1113
	Sulfur	ppm	ASTM D5185m	4250	3456	3249	3332
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	21.1	20.5
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.0	5.9	6.2
	Visc @ 100°C	cSt	ASTM D445	14.4	13.6	12.8	12.7







Certificate L2367

Laboratory Sample No.

: WC0887559 Lab Number : 06213238 Unique Number : 11086102 Test Package : FLEET

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

Diagnosed

: 19 Jun 2024

: 18 Jun 2024 : 19 Jun 2024 - Wes Davis

Contact: Lisa DePasqua Idepasqua@townofchapelhill.org

T: (919)696-4941

TOWN OF CHAPEL HILL

6900 MILLHOUSE RD

CHAPEL HILL, NC

US 27516

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)