

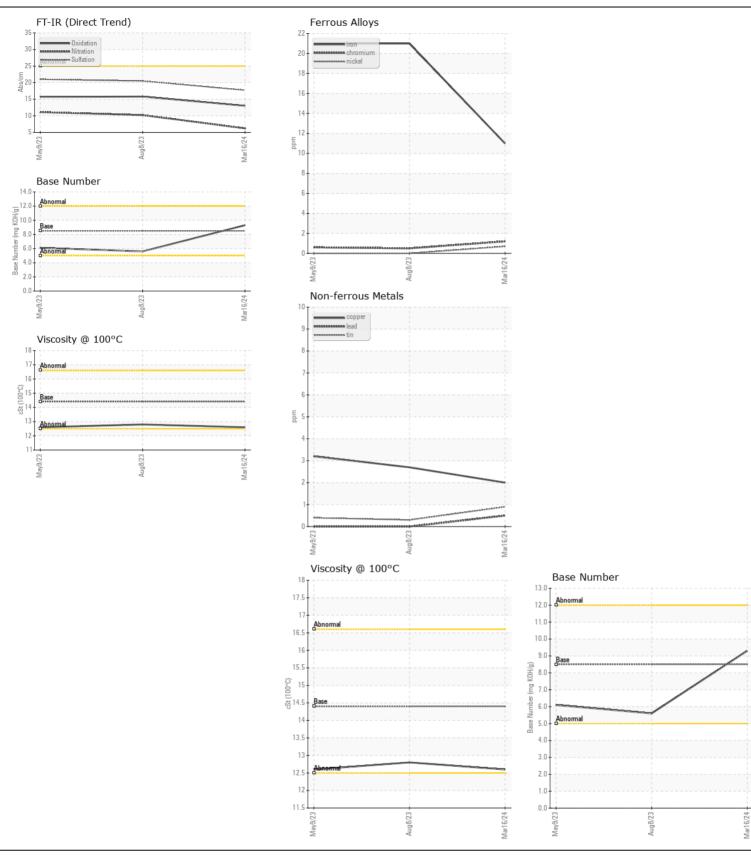
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL



Machine Id
L4652
Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W4	40 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LITTIU/ADIT	WC0874318	WC0783986	WC0783997
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		16 Mar 2024	08 Aug 2023	09 May 2023
	Machine Age	hrs	Client Info		3191	6452	4060
	Oil Age	hrs	Client Info		0	412	585
	Filter Age	hrs	Client Info		0	412	585
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	11	21	21
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		1	0	0
	Aluminum	ppm	ASTM D5185m	>30	4	3	4
	Lead	ppm	ASTM D5185m	>30	<1	0	0
	Copper	ppm	ASTM D5185m		2	3	3
	Tin	ppm	ASTM D5185m	>5	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	7	5	6
	Potassium	ppm	ASTM D5185m	>20	5	3	<1
There is no indication of any contamination in the oil.	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	0.2	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	6.2	10.2	11.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	20.5	21.0
	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	4	7	6
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	19	27	45
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	63	82	84
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		826	113	111
	Calcium	ppm	ASTM D5185m		1164	2048	1992
	Phosphorus	ppm	ASTM D5185m		993	905	898
	Zinc	ppm	ASTM D5185m		1159	1123	1109
	Sulfur	ppm	ASTM D5185m		3384	4045	3836
	Oxidation	Abs/.1mm	*ASTM D7414		13.0	15.8	15.7
	Base Number (BN)				9.3	5.6	6.1
	Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.8	12.6







Laboratory Sample No.

Lab Number : 06192019

: WC0874318 Unique Number : 11048771

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested**

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 29 May 2024 : 29 May 2024 - Wes Davis

Apple Valley Waste - EHT Location

6626 Delilah Road Egg Harbor Township, NJ US 08234

Contact: Service Manager

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)

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