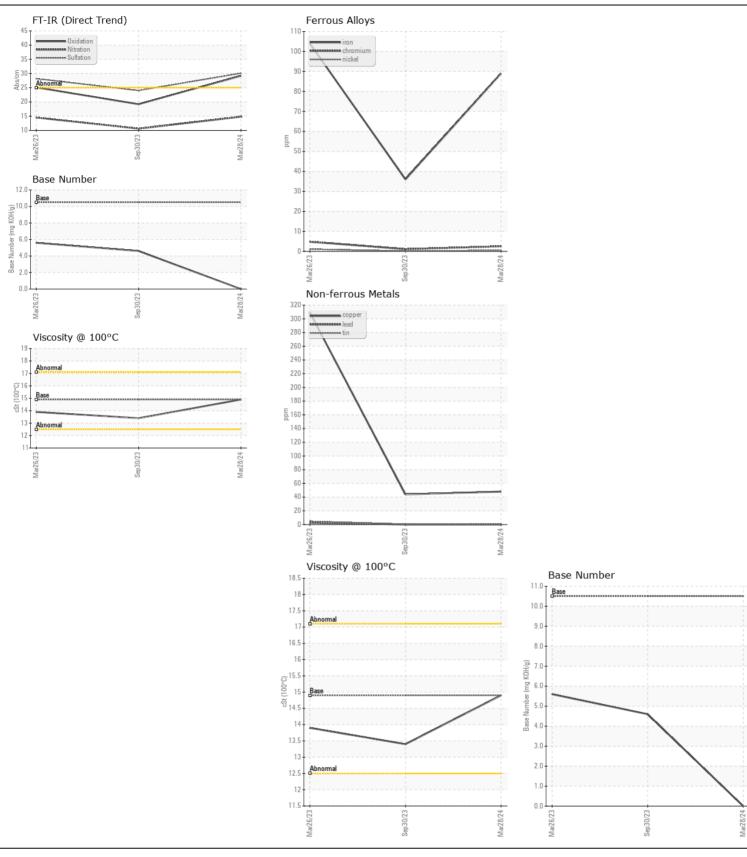
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

2314
Component
Diesel Engine
Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0719879	WC0719872	WC053732
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 Mar 2024	30 Sep 2023	26 Mar 202
	Machine Age	mls	Client Info		251636	198734	127628
	Oil Age	mls	Client Info		100000	50000	100000
	Filter Age	mls	Client Info		50000	50000	50000
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>100	89	36	<u> 104</u>
VLAN	Chromium	ppm	ASTM D5185m		2	1	5
All component wear rates are normal.	Nickel		ASTM D5185m		<1	<1	1
	Titanium	ppm	ASTM D5185m	>4	0	0	<1
	Silver		ASTM D5185m	. 2	0	0	0
	Aluminum	ppm	ASTM D5185m		12	6	32
	Lead	ppm	ASTM D5185m		0	0	3
	Copper	ppm	ASTM D5185m		48	44	309
	Tin	ppm	ASTM D5185m		0	<1	5
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		13	11	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	17	12	74
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.9	1	1.7
	Nitration	Abs/cm	*ASTM D7624	>20	14.8	10.6	14.5
	Sulfation	Abs/.1mm	*ASTM D7415		30.1	24.0	28.2
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	3	3
	Boron	ppm	ASTM D5185m	0	0	0	1
The BN level is low. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m		16	12	7
	Manganese	ppm	ASTM D5185m		1	<1	3
	Magnesium	ppm	ASTM D5185m	60	239	186	95
	Calcium	ppm	ASTM D5185m		2359	2211	2531
	Phosphorus	ppm	ASTM D5185m	1050	896	841	910
	Zinc	ppm	ASTM D5185m	1200	1087	1105	1166
	Sulfur	ppm	ASTM D5185m	12500	2863	2666	3043
	Oxidation	Abs/.1mm	*ASTM D7414		29.2	19.2	25.1
	Base Number (BN)	mg KOH/g	ASTM D2896	10.5	0.0	4.6	5.6
	Visc @ 100°C	cSt	ASTM D445		14.9	13.4	13.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06149453 Unique Number : 10979531 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0719879 : 15 Apr 2024

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

Tested : 16 Apr 2024 Diagnosed : 17 Apr 2024 - Don Baldridge **DILLON TRANSPORTATION**

4445 NORTH INTERSTATE WAY KINGMAN, AZ

US 86401 Contact: T LAMOREAUX

t.lamoreaux@dillontransportation.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:

F: