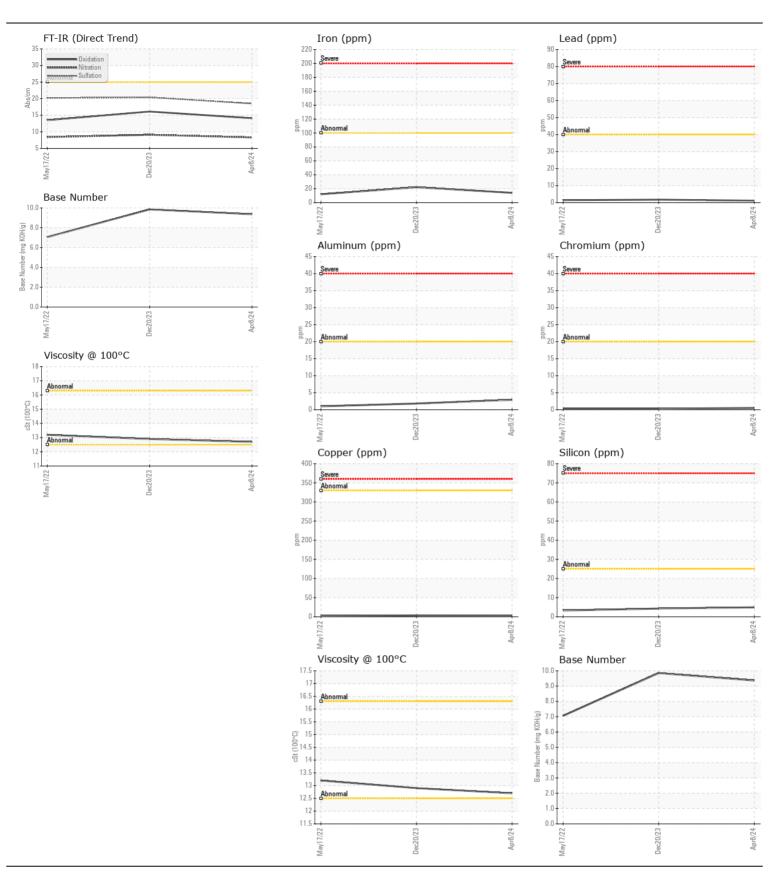
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

TRACTORS
Machine Id

[TRACTORS] TR367
Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA0109796	LP0001230	WC0542108
Resample at the next service interval to monitor.	Sample Date		Client Info		08 Apr 2024	20 Dec 2023	17 May 202
	Machine Age	hrs	Client Info		40265	39843	38500
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	<100	14	22	12
WEAN	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	7 7	2	1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	1
	Lead	ppm	ASTM D5185m		1	2	1
	Copper	ppm	ASTM D5185m		3	4	3
	Tin	ppm	ASTM D5185m	>15	<1	0	<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		5	4	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	0	1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844	~ 2	0.2	0.5	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.1	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		18.5	20.4	20.2
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
ELLUD COMPUTION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0.0	2	2	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		54	27	59
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0.4	95	72	13
	Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m	277	<1 160	0 368	<1 699
	Calcium	ppm	ASTM D5185m		2341	1896	1215
	Phosphorus	ppm	ASTM D5185m		1172	952	997
	Zinc	ppm	ASTM D5185m		1330	1224	1119
	Sulfur	ppm	ASTM D5185m		4313	3318	2879
	Oxidation	Abs/.1mm	*ASTM D7414		14.1	16.1	13.5
	Base Number (BN)			7 2 3	9.37	9.85	7.06
	Visc @ 100°C	cSt	ASTM D445		12.7	12.9	13.2





Certificate L2367

Laboratory Sample No.

: PCA0109796 Lab Number : 06148173 Unique Number : 10978251 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 **Tested** : 15 Apr 2024

: 15 Apr 2024 - Wes Davis Diagnosed

2420 BOSTON RD $WILBRAHAM,\,MA$ US 01095

CONSTRUCTION SERVICES

Contact: Michael Dupuis mdupuis@cs-ma.us T: (413)733-6331

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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