



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**217385 []**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- QTS)**

**RECOMMENDATION**

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0101223</b>	PCA0101192	PCA0101239
Sample Date		Client Info		<b>17 May 2024</b>	27 Dec 2023	31 Aug 2023
Machine Age	mls	Client Info		<b>609153</b>	574994	536338
Oil Age	mls	Client Info		<b>0</b>	0	30000
Filter Age	mls	Client Info		<b>0</b>	0	30000
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>24</b>	18	25
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>2</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	5	7
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>53</b>	70	▲ 185
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

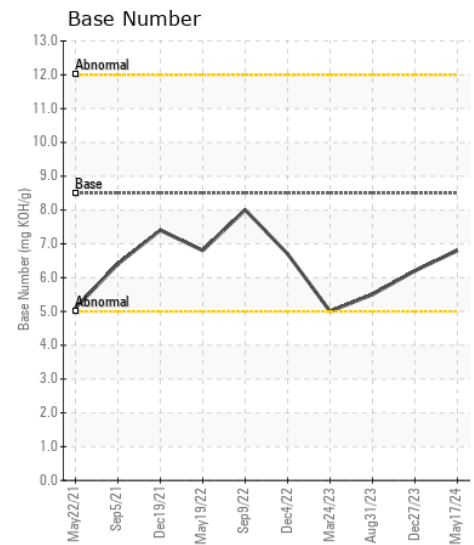
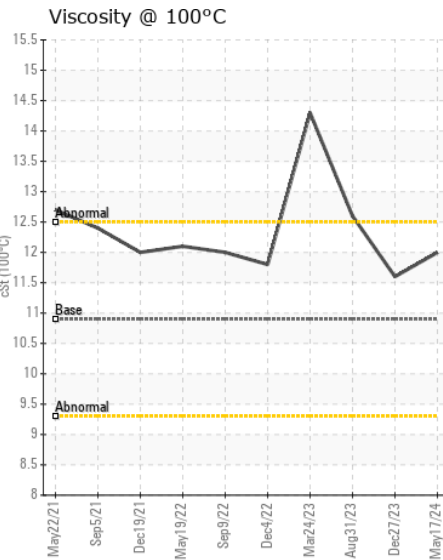
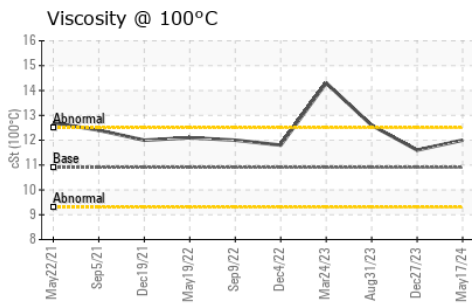
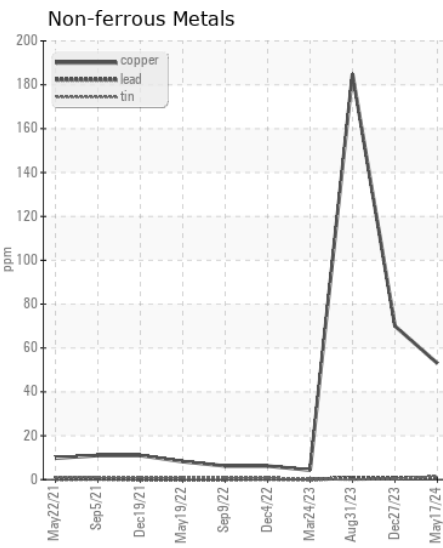
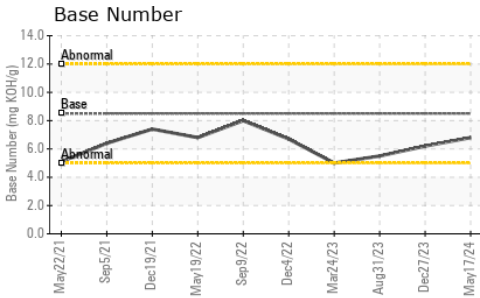
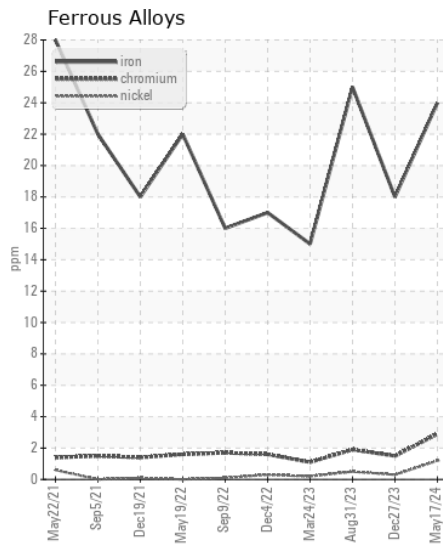
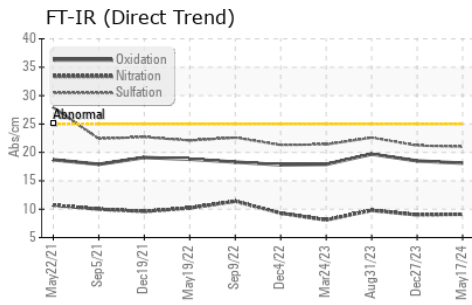
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	5
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.7	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	9.0	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	21.2	22.6
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>1</b>	2	2
Boron	ppm	ASTM D5185m	250	<b>7</b>	2	6
Barium	ppm	ASTM D5185m	10	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>63</b>	56	60
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>988</b>	876	980
Calcium	ppm	ASTM D5185m	3000	<b>1160</b>	1039	1694
Phosphorus	ppm	ASTM D5185m	1150	<b>1038</b>	916	1144
Zinc	ppm	ASTM D5185m	1350	<b>1293</b>	1200	1489
Sulfur	ppm	ASTM D5185m	4250	<b>2628</b>	1939	2989
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.1</b>	18.5	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.8</b>	6.2	5.5
Visc @ 100°C	cSt	ASTM D445	10.9	<b>12.0</b>	11.6	12.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0101223  
**Lab Number** : 06192049  
**Unique Number** : 11048801  
**Test Package** : FLEET  
**Received** : 28 May 2024  
**Tested** : 29 May 2024  
**Diagnosed** : 29 May 2024 - Wes Davis

**McLane Company - High Plains - 600HP**  
 1717 East Loop 289  
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 US 79403  
 Contact: RITA GARCIA  
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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)