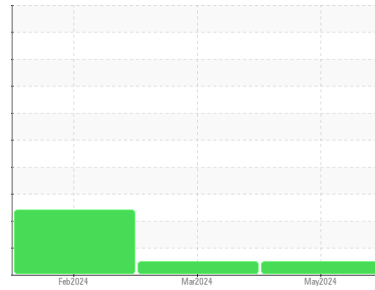


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
223168 []

Component
Diesel Engine

Fluid
 DIESEL ENGINE OIL SAE 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0101221	PCA0098810	PCA0101230
Sample Date	Client Info			04 May 2024	21 Mar 2024	01 Feb 2024
Machine Age	mls	Client Info		96160	63888	33411
Oil Age	mls	Client Info		0	0	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17	25	43
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	1
Titanium	ppm	ASTM D5185m		2	<1	<1
Silver	ppm	ASTM D5185m	>3	2	0	<1
Aluminum	ppm	ASTM D5185m	>20	10	17	37
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	100	108	300
Tin	ppm	ASTM D5185m	>15	2	2	5
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1

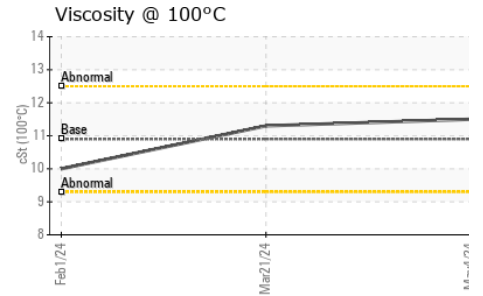
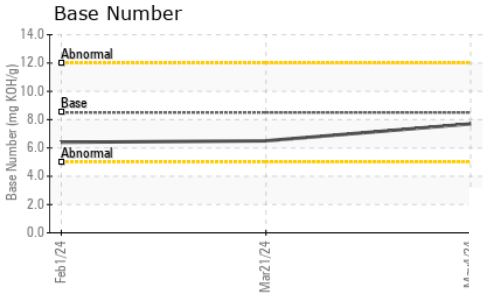
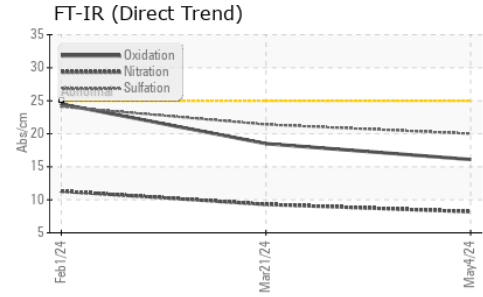
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	6	17	110
Barium	ppm	ASTM D5185m	10	1	0	1
Molybdenum	ppm	ASTM D5185m	100	62	75	126
Manganese	ppm	ASTM D5185m		<1	2	4
Magnesium	ppm	ASTM D5185m	450	952	904	680
Calcium	ppm	ASTM D5185m	3000	1113	1219	1346
Phosphorus	ppm	ASTM D5185m	1150	1035	882	724
Zinc	ppm	ASTM D5185m	1350	1256	1164	836
Sulfur	ppm	ASTM D5185m	4250	2710	2562	2157

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	17	76
Sodium	ppm	ASTM D5185m		<1	1	3
Potassium	ppm	ASTM D5185m	>20	22	36	91

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.2	9.3	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	21.4	24.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	18.5	24.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.7	6.5	6.4

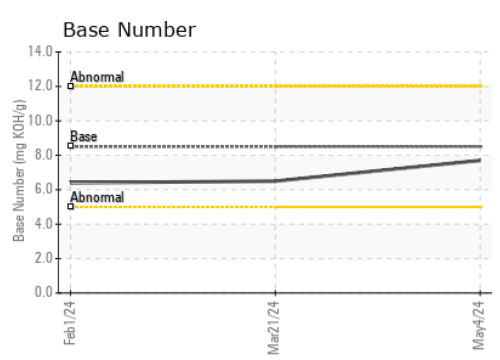
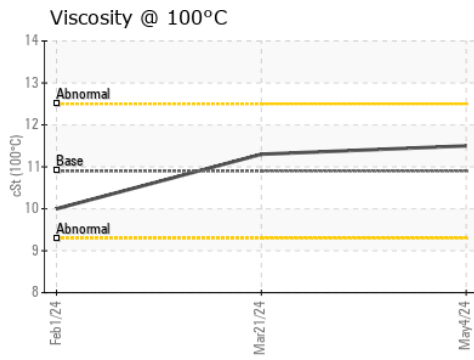
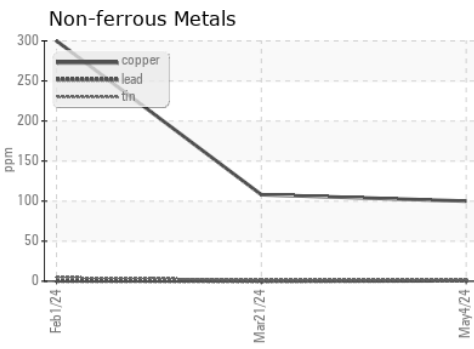
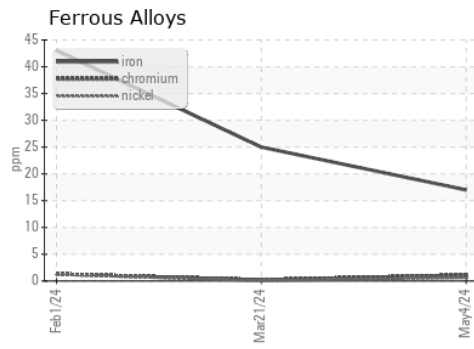
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.9	11.5	11.3	10.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101221 **Received** : 28 May 2024
Lab Number : **06192047** **Tested** : 29 May 2024
Unique Number : 11048799 **Diagnosed** : 30 May 2024 - Sean Felton
Test Package : FLEET

McLane Company - High Plains - 600HP
 1717 East Loop 289
 LUBBOCK, TX
 US 79403
 Contact: RITA GARCIA
 rita.garcia@mcclaneco.com
 T: (806)766-2902
 F:

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)