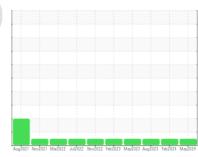


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **221005** [] Component

Diesel Engine

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

## DIAGNOSIS

#### 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.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil

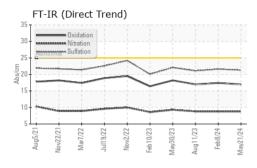
#### **Fluid Condition**

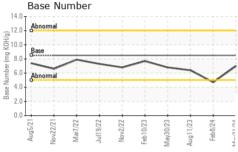
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

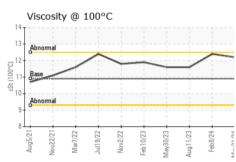
Aug2021 Nov2021 Mag2022 Ju2022 Nov2022 Feb2023 Mag2023 Aug2023 Feb2024 Mag2024									
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0101228	PCA0101206	PCA0101258			
Sample Date		Client Info		21 May 2024	08 Feb 2024	11 Aug 2023			
Machine Age	mls	Client Info		385625	354610	282112			
Oil Age	mls	Client Info		0	0	36000			
Oil Changed		Client Info		Changed	Changed	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>100	14	17	17			
Chromium	ppm	ASTM D5185m	>20	2	1	2			
Nickel	ppm	ASTM D5185m	>4	<1	<1	0			
Titanium	ppm	ASTM D5185m		2	<1	0			
Silver	ppm	ASTM D5185m	>3	1	0	0			
Aluminum	ppm	ASTM D5185m	>20	5	6	8			
Lead	ppm	ASTM D5185m	>40	<1	0	0			
Copper	ppm	ASTM D5185m	>330	4	5	6			
Tin	ppm	ASTM D5185m	>15	1	<1	0			
Vanadium	ppm	ASTM D5185m		<1	<1	0			
Cadmium	ppm	ASTM D5185m		<1	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	250	7	9	0			
Barium	ppm	ASTM D5185m	10	1	<1	0			
Molybdenum	ppm	ASTM D5185m	100	61	62	64			
Manganese	ppm	ASTM D5185m		<1	<1	<1			
Magnesium	ppm	ASTM D5185m	450	939	836	1107			
Calcium	ppm	ASTM D5185m	3000	1146	1014	1268			
Phosphorus	ppm	ASTM D5185m	1150	1074	963	1079			
Zinc	ppm	ASTM D5185m	1350	1278	1156	1410			
Sulfur	ppm	ASTM D5185m	4250	3085	2715	3325			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	6	4			
Sodium	ppm	ASTM D5185m		<1	0	2			
Potassium	ppm	ASTM D5185m	>20	6	11	16			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.8			
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.8	8.8			
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.6	21.1			
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.4	17.0			
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.0	4.7	6.4			

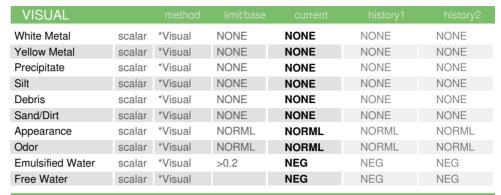


# **OIL ANALYSIS REPORT**



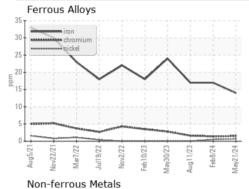


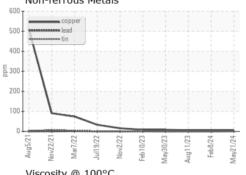


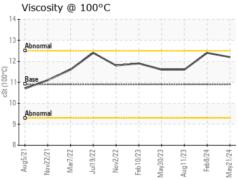


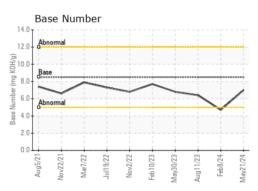
FLUID PROP	ERITES	method				history2
Visc @ 100°C	cSt	ASTM D445	10.9	12.2	12.4	11.6

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06192043 Unique Number : 11048795

: PCA0101228 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 LUBBOCK, TX US 79403

Contact: RITA GARCIA rita.garcia@mclaneco.com T: (806)766-2902

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)

F: