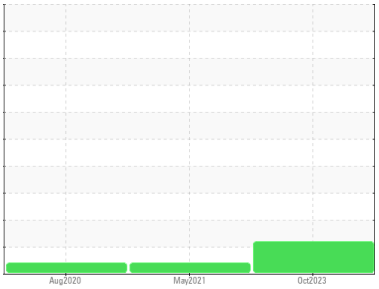
OIL DIAGNOSTICS

PROBLEM SUMMARY

Sample Rating Trend

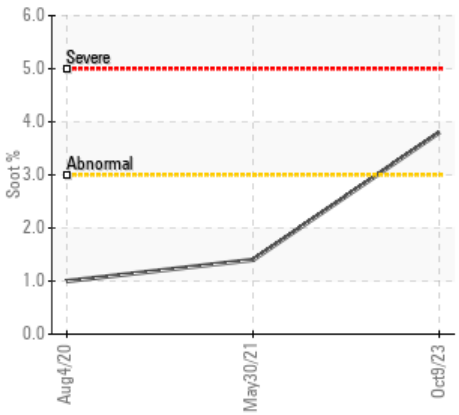


SOOT

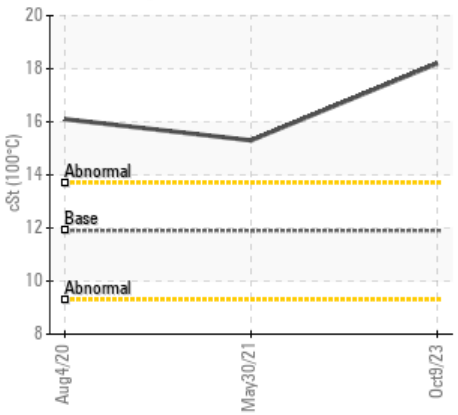
Area
(T528153) 600HP
Machine Id
6801 [600HP]
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

COMPONENT CONDITION SUMMARY

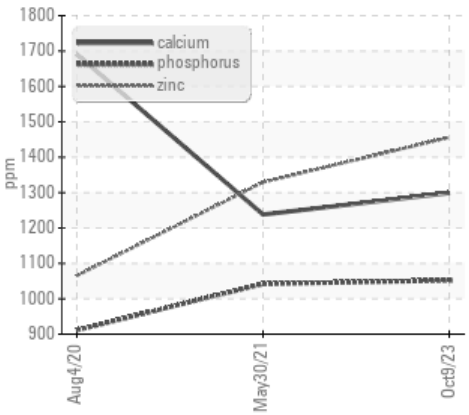
Soot %



Viscosity @ 100°C



Additives



RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ATTENTION	ATTENTION
Soot %	%	*ASTM D7844	>3	▲ **3.8**	1.4	1
Visc @ 100°C	cSt	ASTM D445	11.9	▲ **18.2**	▲ 15.3	▲ 16.1

Customer Id: MCLLUB
Sample No.: PCA0101270
Lab Number: 05997695
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Check Combustion	---	---	?	We advise that you check for faulty combustion, plugged air filters, or aftercoolers.

HISTORICAL DIAGNOSIS

30 May 2021 Diag: Don Baldridge

VISCOSITY

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

04 Aug 2020 Diag: Don Baldridge

VISCOSITY

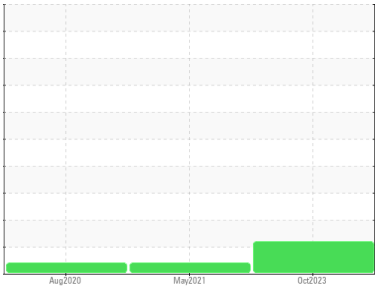
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



SOOT

Area
(T528153) 600HP
Machine Id
6801 [600HP]
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is an abnormal amount of solids and carbon present in the oil.

Fluid Condition
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0101270**	PCA0038984	PCA0016619
Sample Date		Client Info		**09 Oct 2023**	30 May 2021	04 Aug 2020
Machine Age	hrs	Client Info		**31967**	22417	18353
Oil Age	hrs	Client Info		**3000**	3000	3000
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ATTENTION	ATTENTION

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**66**	35	18
Chromium	ppm	ASTM D5185m	>20	**2**	1	<1
Nickel	ppm	ASTM D5185m	>4	**1**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**4**	2	0
Lead	ppm	ASTM D5185m	>40	**0**	<1	<1
Copper	ppm	ASTM D5185m	>330	**1**	<1	<1
Tin	ppm	ASTM D5185m	>15	**0**	<1	0
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	10	74
Barium	ppm	ASTM D5185m		**4**	0	0
Molybdenum	ppm	ASTM D5185m		**75**	63	53
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**1098**	992	739
Calcium	ppm	ASTM D5185m		**1299**	1238	1691
Phosphorus	ppm	ASTM D5185m		**1052**	1042	911
Zinc	ppm	ASTM D5185m		**1456**	1329	1065
Sulfur	ppm	ASTM D5185m		**3058**	2547	2582

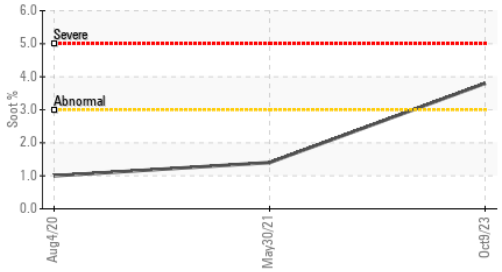
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**10**	5	6
Sodium	ppm	ASTM D5185m		**3**	6	5
Potassium	ppm	ASTM D5185m	>20	**2**	0	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**3.8**	1.4	1
Nitration	Abs/cm	*ASTM D7624	>20	**23.1**	16.1	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	**39.9**	30	28.8

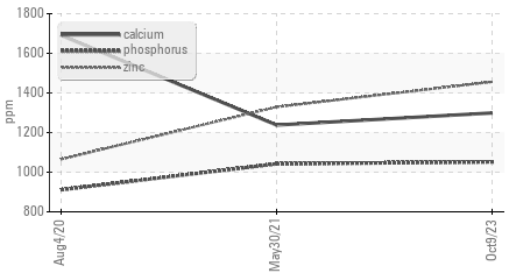
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**47.9**	33	31.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	**7.0**	8.9	8.5

OIL ANALYSIS REPORT

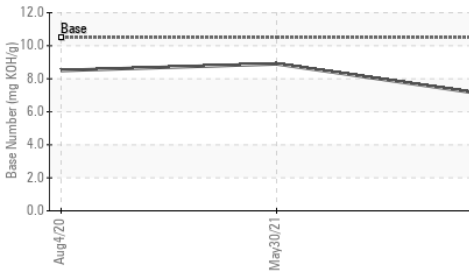
Soot %



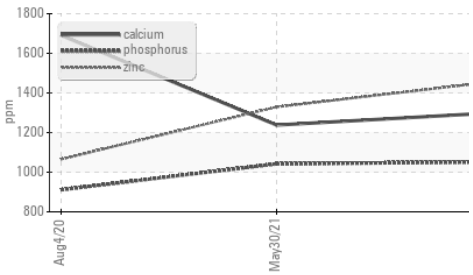
Additives



Base Number



Additives

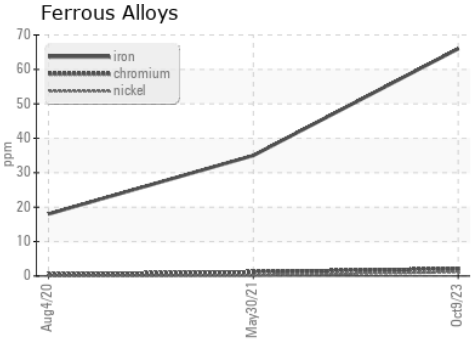


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

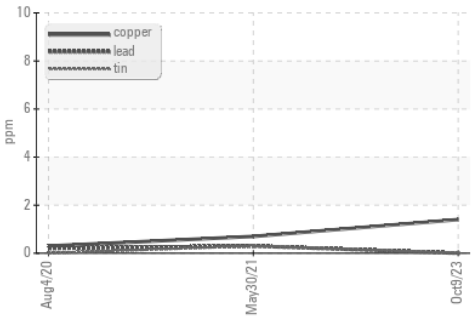
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	▲ **18.2**	▲ 15.3	▲ 16.1

GRAPHS

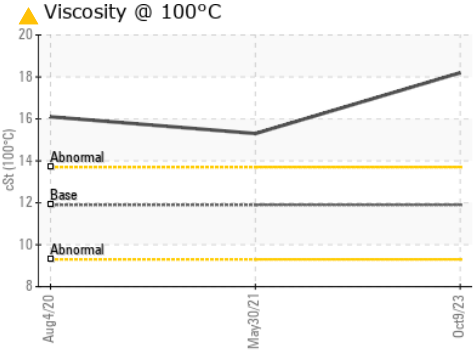
Ferrous Alloys



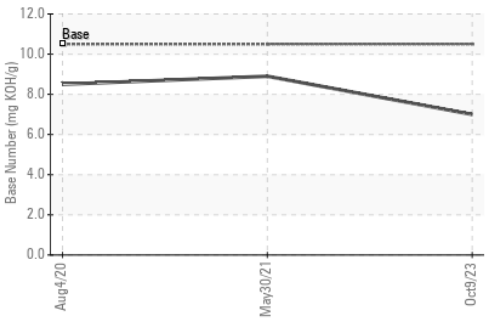
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101270
Lab Number : 05997695
Unique Number : 10726055
Test Package : FLEET

Received : 03 Nov 2023
Diagnosed : 06 Nov 2023
Diagnostician : Don Baldridge

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)

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