



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
600HP
 Machine Id
7637 [600HP]
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (38 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0101194	PCA0101249	PCA0073178
Sample Date		Client Info		27 Dec 2023	09 Aug 2023	24 Feb 2023
Machine Age	mls	Client Info		0	372642	330148
Oil Age	mls	Client Info		0	42000	46000
Filter Age	mls	Client Info		0	42000	46000
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	19	25	24
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	8	16	16
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>30	19	6	7
Tin	ppm	ASTM D5185m	>15	<1	<1	<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

There is no indication of any contamination in the oil.

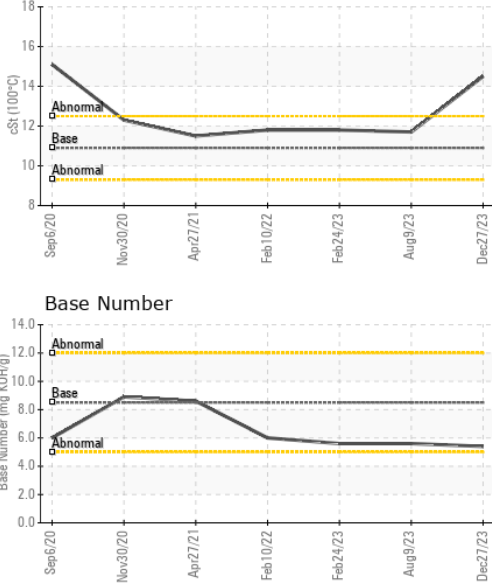
Silicon	ppm	ASTM D5185m	>30	13	5	5
Potassium	ppm	ASTM D5185m	>20	28	17	15
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.5	9.4	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	21.8	22.7
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

FLUID CONDITION

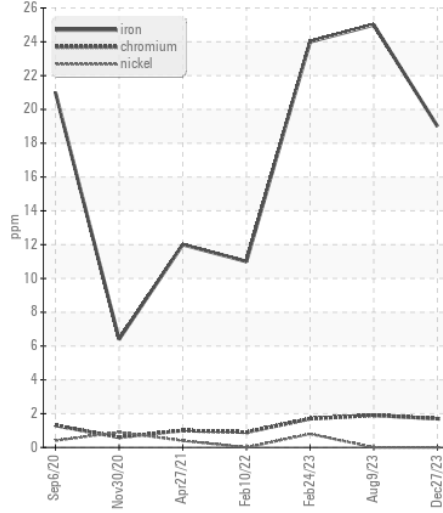
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		18	4	5
Boron	ppm	ASTM D5185m	250	41	0	1
Barium	ppm	ASTM D5185m	10	0	0	2
Molybdenum	ppm	ASTM D5185m	100	15	63	68
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	154	1034	963
Calcium	ppm	ASTM D5185m	3000	1840	1171	1262
Phosphorus	ppm	ASTM D5185m	1150	887	1031	1057
Zinc	ppm	ASTM D5185m	1350	1167	1361	1313
Sulfur	ppm	ASTM D5185m	4250	2769	3033	2323
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	19.0	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.4	5.6	5.6
Visc @ 100°C	cSt	ASTM D445	10.9	▲ 14.5	11.7	11.8

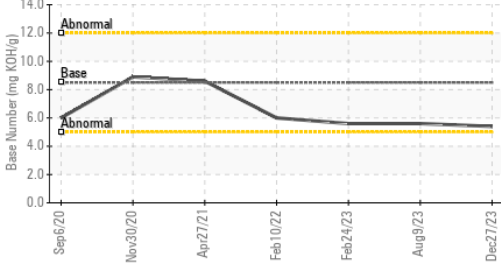
▲ Viscosity @ 100°C



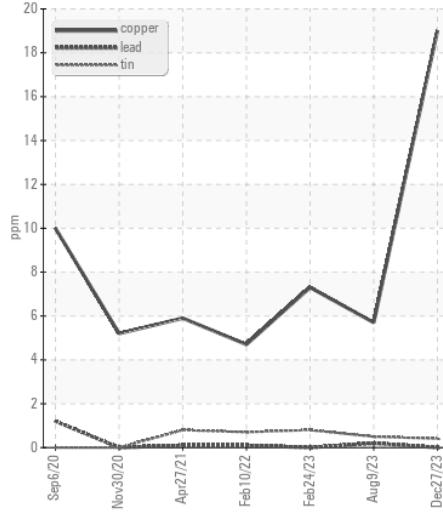
Ferrous Alloys



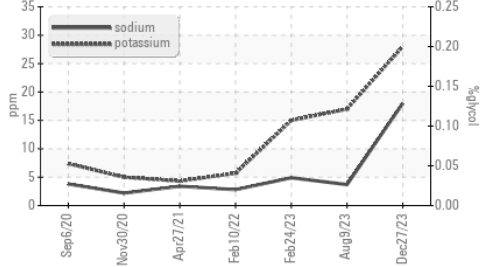
Base Number



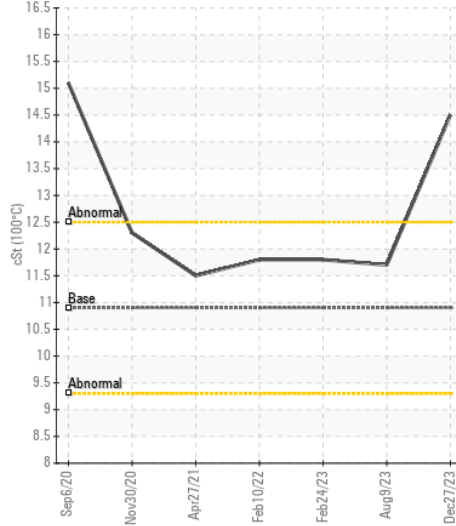
Non-ferrous Metals



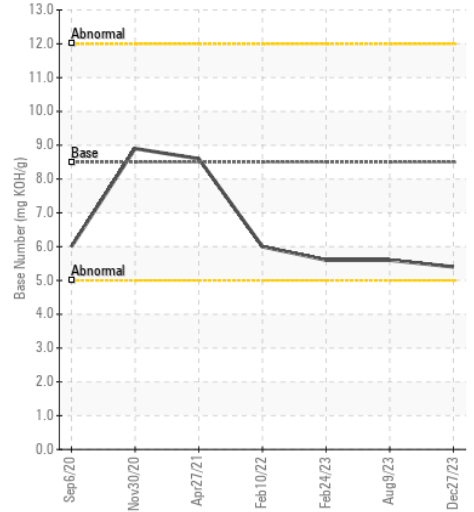
Glycol Contamination



▲ Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101194 **Received** : 16 Jan 2024
Lab Number : 06060606 **Diagnosed** : 17 Jan 2024
Unique Number : 10831988 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

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:

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)