



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
36096
 Component
Diesel Engine
 Fluid
{not provided} (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. 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		IL0031045	IL05725747	IL05682688
Sample Date		Client Info		05 Apr 2024	13 Dec 2022	13 Oct 2022
Machine Age	mls	Client Info		13938	8108	7294
Oil Age	mls	Client Info		0	500	500
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	12	63
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	12	39
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	3	20
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

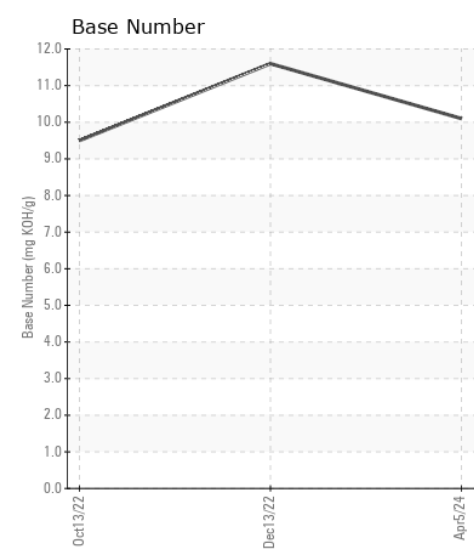
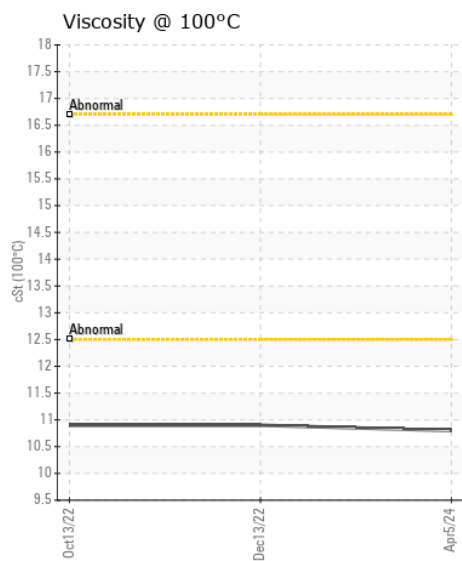
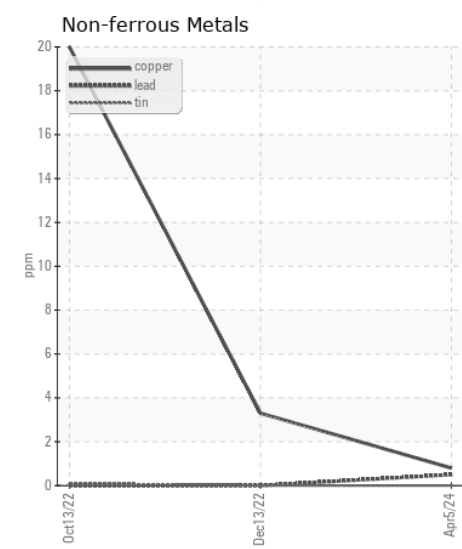
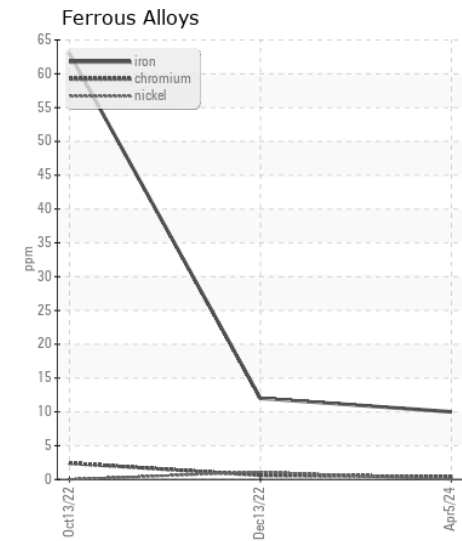
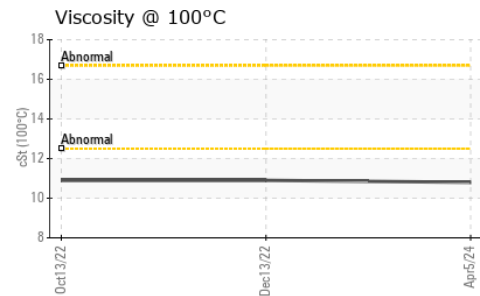
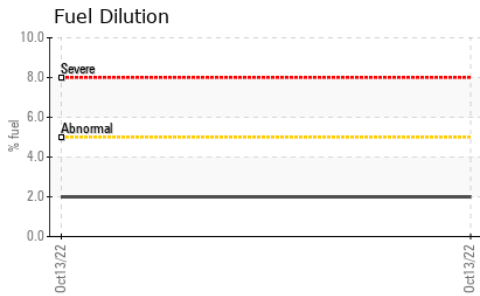
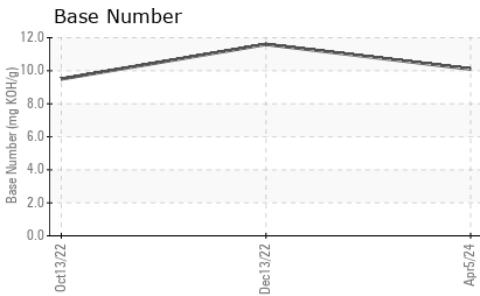
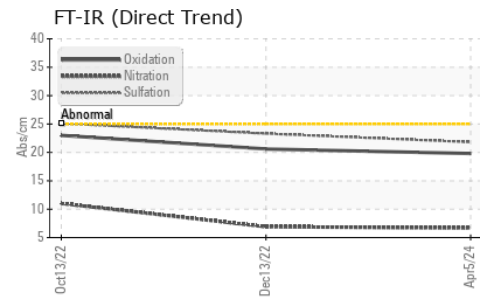
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	7	10
Potassium	ppm	ASTM D5185m	>20	9	26	107
Fuel	%	ASTM D3524	>5	<1.0	<1.0	2.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	1
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.9	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	23.3	25.1
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 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		3	3	2
Boron	ppm	ASTM D5185m		54	56	29
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		39	45	44
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		461	490	528
Calcium	ppm	ASTM D5185m		1544	1663	1653
Phosphorus	ppm	ASTM D5185m		705	737	690
Zinc	ppm	ASTM D5185m		789	916	922
Sulfur	ppm	ASTM D5185m		2547	3017	2426
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	20.6	23.0
Base Number (BN)	mg KOH/g	ASTM D2896		10.1	11.6	9.5
Visc @ 100°C	cSt	ASTM D445		10.8	10.9	10.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0031045 **Received** : 17 Apr 2024
Lab Number : **06151584** **Tested** : 19 Apr 2024
Unique Number : 10981662 **Diagnosed** : 19 Apr 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution)

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Certificate L2367
 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)