



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 47158
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 5W40 (--- GAL)

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		WC0882306	WC0369154	WC0323050
Sample Date		Client Info		27 Dec 2023	19 Jul 2019	06 Mar 2019
Machine Age	mls	Client Info		328183	222741	0
Oil Age	mls	Client Info		0	25000	25000
Filter Age	mls	Client Info		0	25000	25000
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	22	12	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	2
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	1	2
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

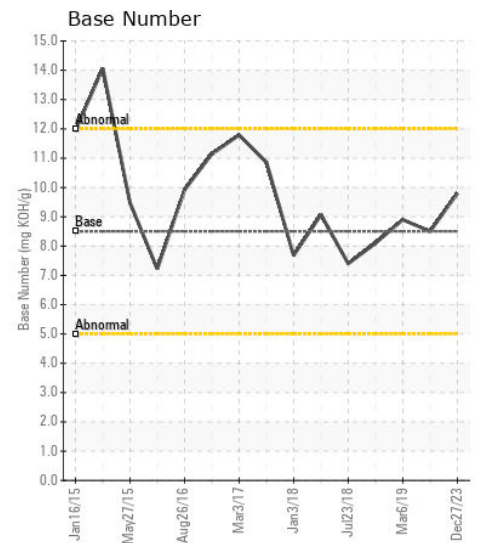
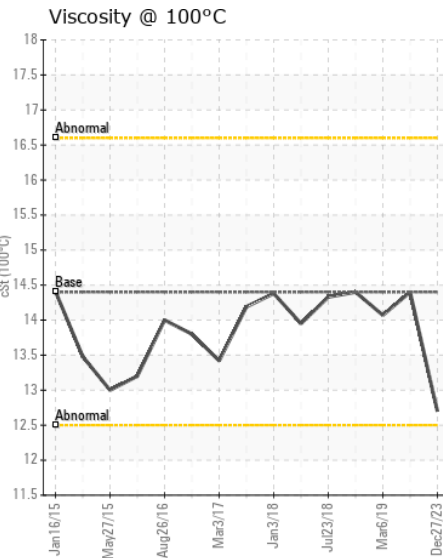
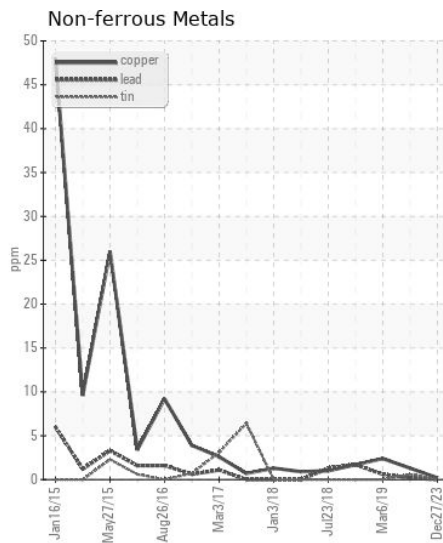
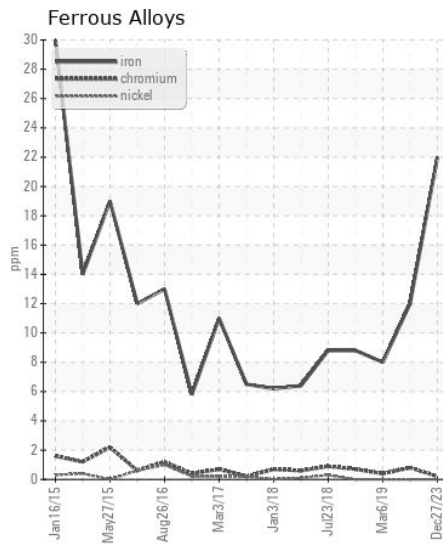
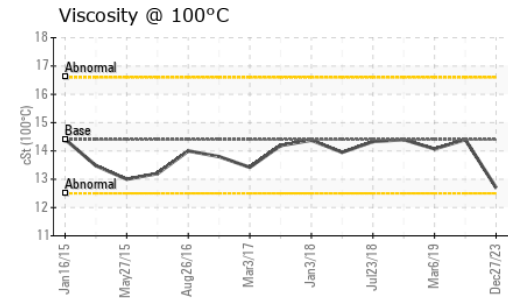
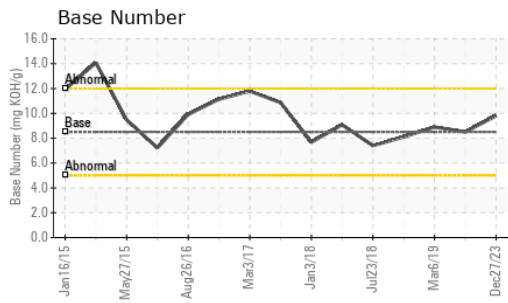
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	4	3
Potassium	ppm	ASTM D5185m	>20	1	8	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.2	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.0	9.6	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	22.8	21.2
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	>44	<1	6	2
Boron	ppm	ASTM D5185m	250	31	50	73
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	74	58	59
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m	450	960	427	381
Calcium	ppm	ASTM D5185m	3000	1110	2158	1971
Phosphorus	ppm	ASTM D5185m	1150	1025	1090	898
Zinc	ppm	ASTM D5185m	1350	1244	1391	1198
Sulfur	ppm	ASTM D5185m	4250	3375	3040	2845
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	18.8	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.8	8.5	8.9
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	14.4	14.07



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0882306 **Received** : 10 Jan 2024
Lab Number : 06057223 **Diagnosed** : 11 Jan 2024
Unique Number : 10823172 **Diagnostician** : Wes Davis
Test Package : FLEET

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 US 27105
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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)