OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
15297
Component
Diesel Engine
Fluid
EXXON 15W40 (--- QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

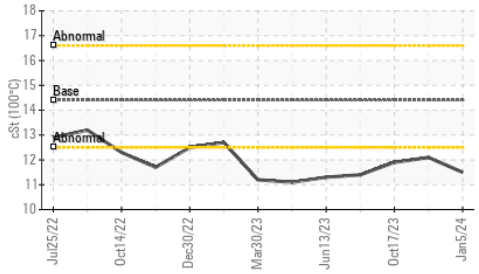
Light fuel dilution occurring.

FLUID CONDITION

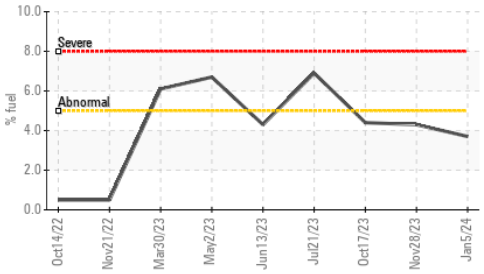
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0815964**	WC0885652	WC0885633
Sample Date		Client Info		**05 Jan 2024**	28 Nov 2023	17 Oct 2023
Machine Age	mls	Client Info		**378888**	356887	335618
Oil Age	mls	Client Info		**0**	21269	39916
Filter Age	mls	Client Info		**0**	21269	39916
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	MARGINAL	MARGINAL
Iron	ppm	ASTM D5185m	>100	**30**	24	20
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**3**	2	1
Lead	ppm	ASTM D5185m	>40	**<1**	2	0
Copper	ppm	ASTM D5185m	>330	**4**	4	4
Tin	ppm	ASTM D5185m	>15	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**7**	8	7
Potassium	ppm	ASTM D5185m	>20	**1**	1	2
Fuel	%	ASTM D3524	>5	▲ **3.7**	▲ 4.3	▲ 4.4
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.3**	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**7.9**	8.4	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.4**	20.5	20.0
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
Sodium	ppm	ASTM D5185m		**2**	2	2
Boron	ppm	ASTM D5185m		**113**	1	2
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**89**	60	58
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**734**	934	920
Calcium	ppm	ASTM D5185m		**1306**	1057	1099
Phosphorus	ppm	ASTM D5185m		**1070**	921	978
Zinc	ppm	ASTM D5185m		**1267**	1223	1199
Sulfur	ppm	ASTM D5185m		**3204**	3083	3094
Oxidation	Abs/.1mm	*ASTM D7414	>25	**15.4**	16.9	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		**6.9**	8.4	8.3
Visc @ 100°C	cSt	ASTM D445	14.4	▲ **11.5**	12.1	11.9

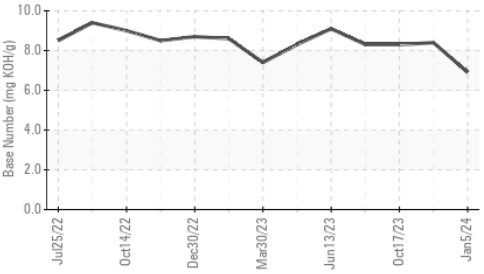
Viscosity @ 100°C



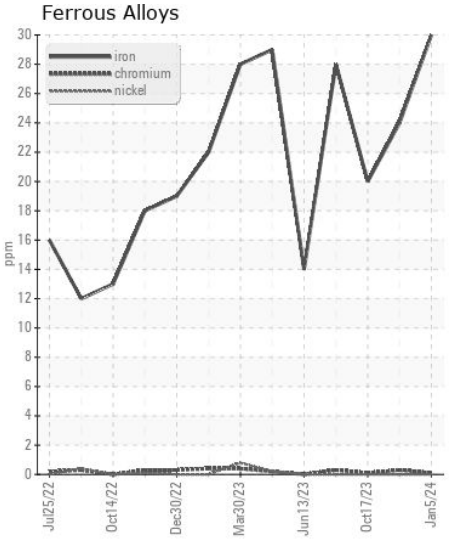
Fuel Dilution



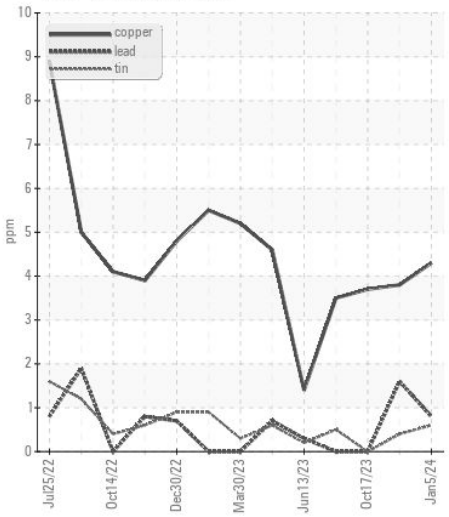
Base Number



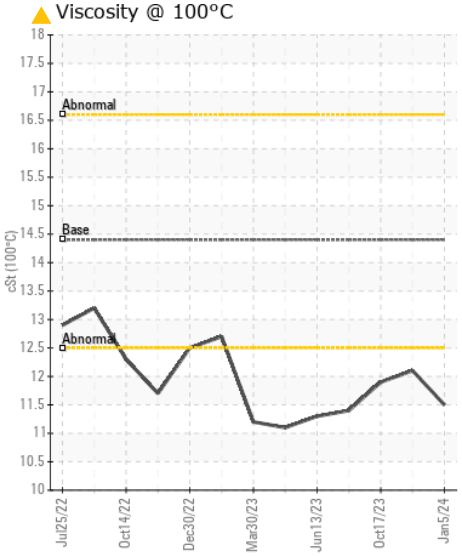
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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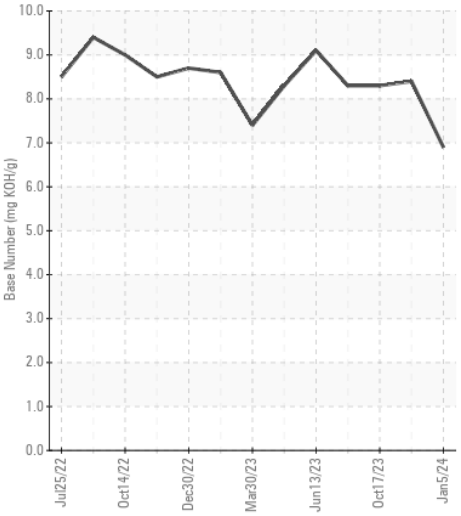

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0815964
Lab Number : 06103518
Unique Number : 10901748
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 28 Feb 2024
Tested : 04 Mar 2024
Diagnosed : 04 Mar 2024 - Wes Davis

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)

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