FLEET LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
413038
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

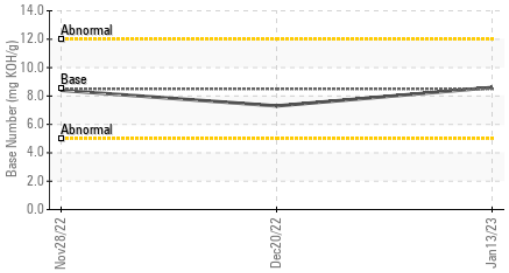
There is no indication of any contamination in the oil.

FLUID CONDITION

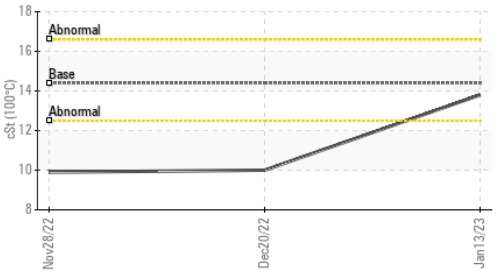
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0064658	GFL0064674	GFL0046829
Sample Date		Client Info		13 Jan 2023	20 Dec 2022	28 Nov 2022
Machine Age	hrs	Client Info		817	694	537
Oil Age	hrs	Client Info		123	694	537
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>120	6	35	32
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>5	0	3	3
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	1
Aluminum	ppm	ASTM D5185m	>20	2	22	16
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	60	199	170
Tin	ppm	ASTM D5185m	>15	<1	4	4
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	8	▲ 66	▲ 68
Potassium	ppm	ASTM D5185m	>20	8	51	33
Fuel		WC Method	>5	<1.0	<1.0	0.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>4	0.1	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.8	11.2	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	25.5	26.6
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	>216	0	2	4
Boron	ppm	ASTM D5185m	250	14	157	231
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	61	125	119
Manganese	ppm	ASTM D5185m		<1	6	6
Magnesium	ppm	ASTM D5185m	450	834	659	709
Calcium	ppm	ASTM D5185m	3000	1040	1481	1493
Phosphorus	ppm	ASTM D5185m	1150	941	677	729
Zinc	ppm	ASTM D5185m	1350	1080	831	855
Sulfur	ppm	ASTM D5185m	4250	2838	2869	2815
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	24.6	24.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.6	7.3	8.4
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	10.0	9.9

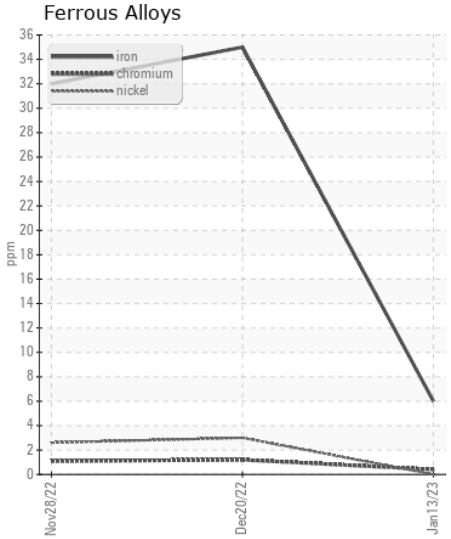
Base Number



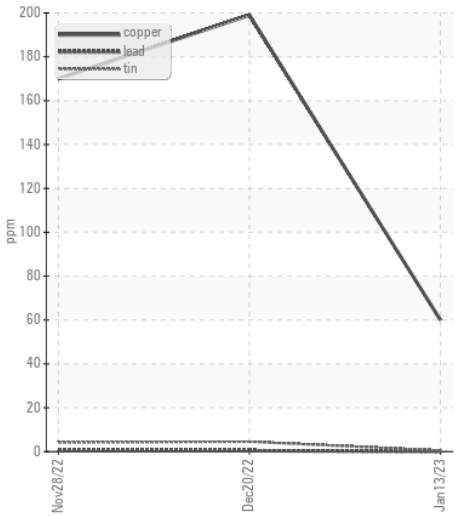
Viscosity @ 100°C



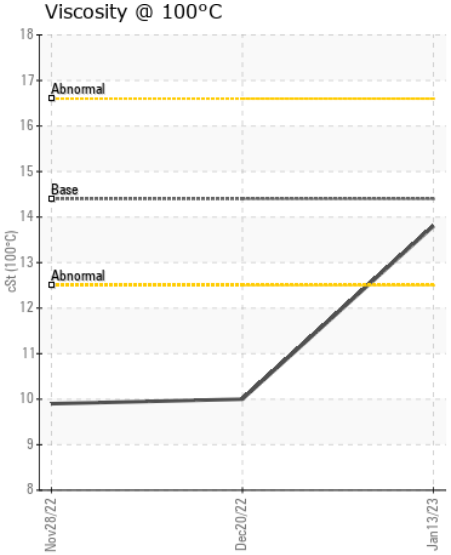
Ferrous Alloys



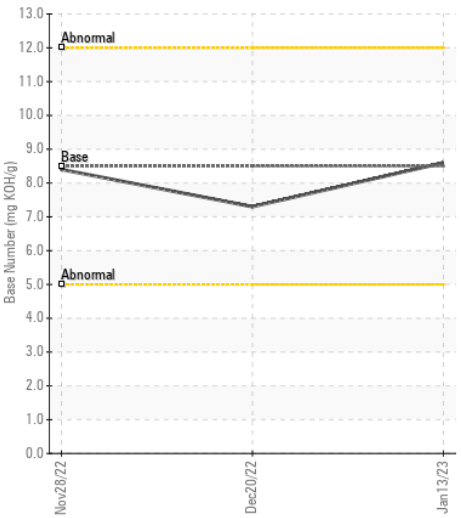
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0064658	**Recieved**	: 17 Jan 2023
Lab Number	: 05741301	**Diagnosed**	: 18 Jan 2023
Unique Number	: 10295900	**Diagnostician**	: Wes Davis
Test Package	: FLEET		

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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