FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
926069 PETERBILT 320
Component
Diesel Engine
Fluid
TIER ONE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

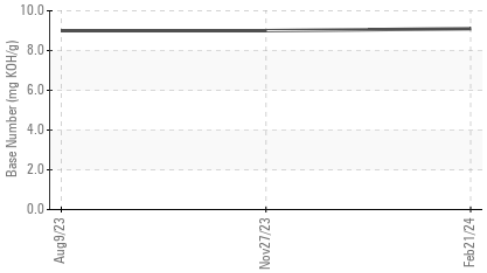
There is no indication of any contamination in the oil.

FLUID CONDITION

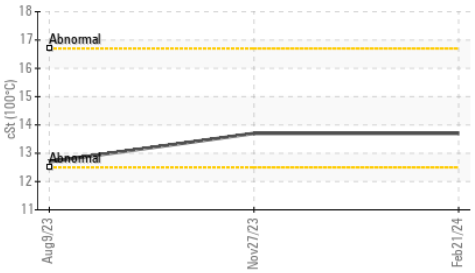
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0061425	GFL0102210	GFL0061456
Sample Date		Client Info		21 Feb 2024	27 Nov 2023	09 Aug 2023
Machine Age	hrs	Client Info		19007	18530	17822
Oil Age	hrs	Client Info		551	600	600
Filter Age	hrs	Client Info		551	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	12	15	16
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	4	4	4
Potassium	ppm	ASTM D5185m	>20	0	0	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	1.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.8	6.7	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	20.0	19.1
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
Sodium	ppm	ASTM D5185m		1	2	2
Boron	ppm	ASTM D5185m		12	15	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		54	52	58
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		807	865	885
Calcium	ppm	ASTM D5185m		1024	1082	1123
Phosphorus	ppm	ASTM D5185m		927	1006	1030
Zinc	ppm	ASTM D5185m		992	1199	1249
Sulfur	ppm	ASTM D5185m		2944	2769	3739
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.5	14.1
Base Number (BN)	mg KOH/g	ASTM D2896		9.1	9.0	9.0
Visc @ 100°C	cSt	ASTM D445		13.7	13.7	12.7

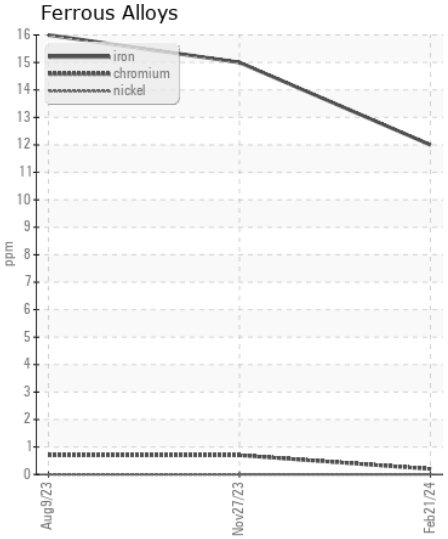
Base Number



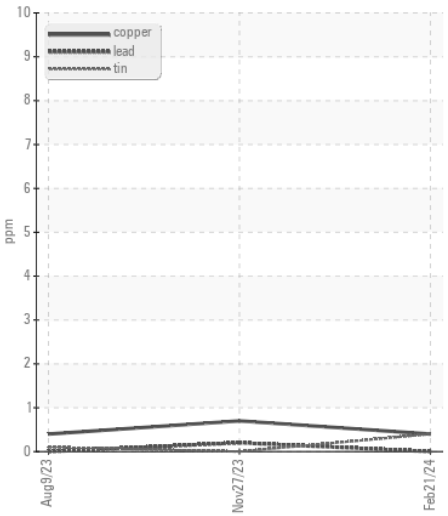
Viscosity @ 100°C



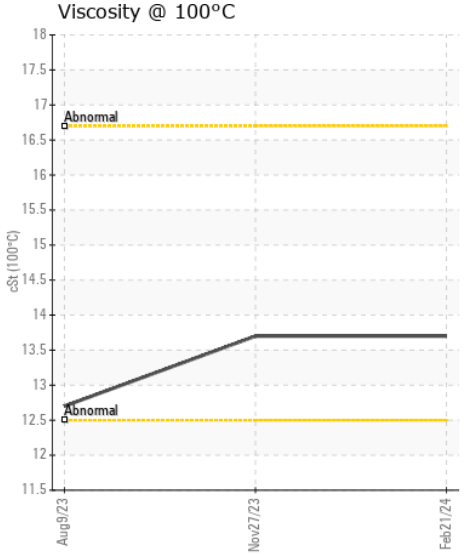
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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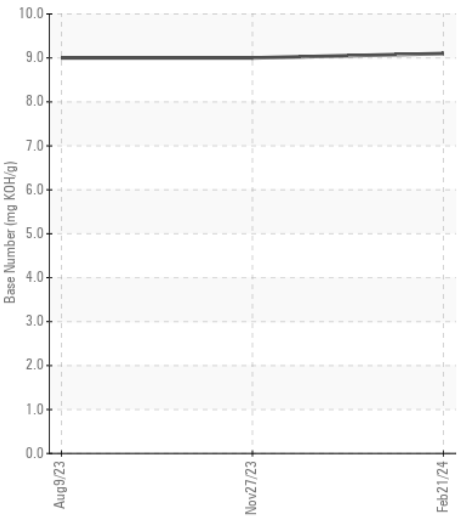

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513			**GFL Environmental - 642- Grand Rapids Hauling**
Sample No.	: GFL0061425	**Received**	: 23 Feb 2024	5826 Alden Nash Ave SE
Lab Number	: 06098261	**Tested**	: 26 Feb 2024	Lowell, MI
Unique Number	: 10896491	**Diagnosed**	: 26 Feb 2024 - Wes Davis	US 49331
Test Package	: FLEET			Contact: Josh Arnett

To discuss this sample report, contact Customer Service at 1-800-237-1369. joshuaarnett@gflenv.com

** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.* T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: