FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
MONTGOMERY
Machine Id
MACK 928112
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

CONTAMINATION

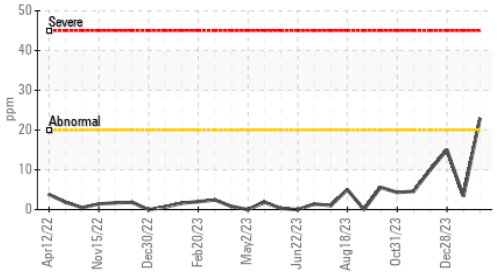
There is no indication of any contamination in the oil.

FLUID CONDITION

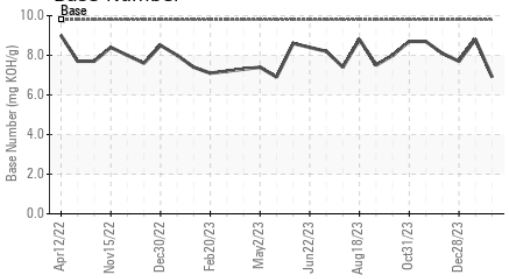
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0081876	GFL0108529	GFL0091306
Sample Date		Client Info		17 Jan 2024	10 Jan 2024	28 Dec 2023
Machine Age	hrs	Client Info		14130	0	13453
Oil Age	hrs	Client Info		1198	0	13453
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>120	16	3	7
Chromium	ppm	ASTM D5185m	>20	1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	▲ 23	3	15
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	7	7	5
Potassium	ppm	ASTM D5185m	>20	18	2	12
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	>4	0.4	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.2	5.8	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	17.5	17.9
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		7	2	4
Boron	ppm	ASTM D5185m	0	3	12	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	54	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	986	903	958
Calcium	ppm	ASTM D5185m	1070	1059	1020	1083
Phosphorus	ppm	ASTM D5185m	1150	1026	1086	965
Zinc	ppm	ASTM D5185m	1270	1249	1224	1286
Sulfur	ppm	ASTM D5185m	2060	2990	3119	3005
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	13.3	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	8.8	7.7
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.6	13.4

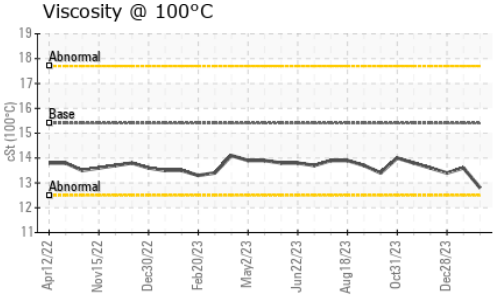
Aluminum (ppm)



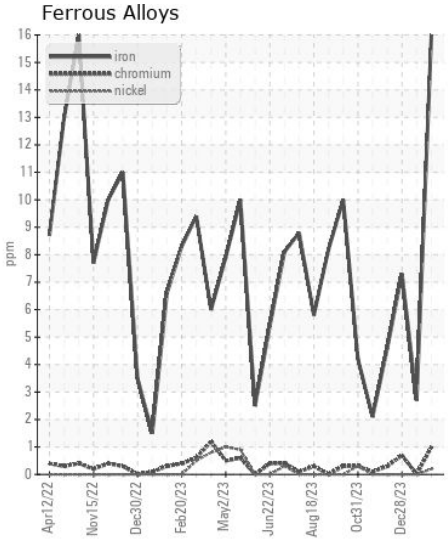
Base Number



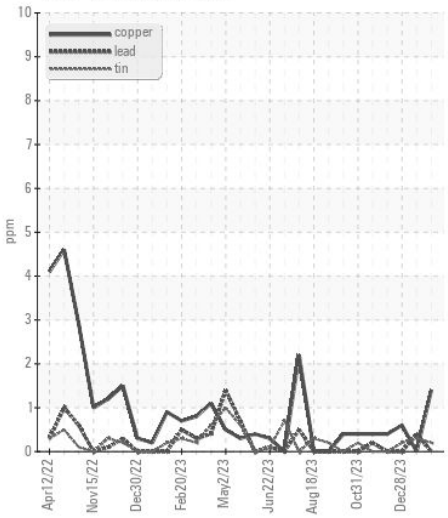
Viscosity @ 100°C



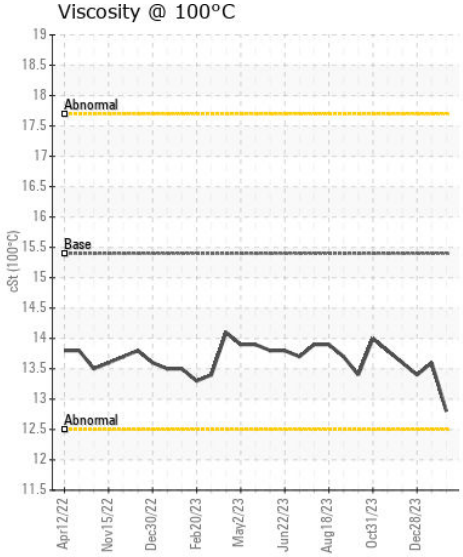
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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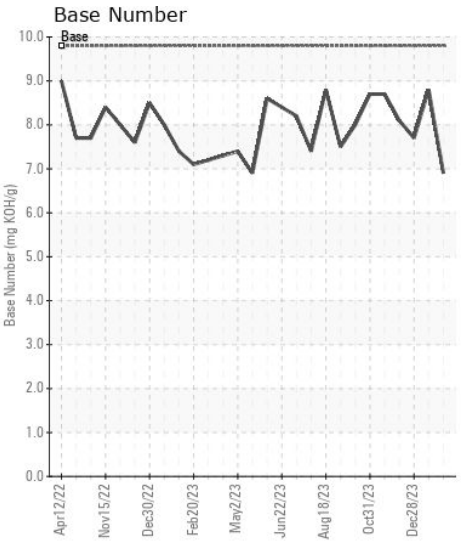

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0081876	**Recieved**	: 19 Jan 2024
Lab Number	: 06065458	**Diagnosed**	: 22 Jan 2024
Unique Number	: 10836840	**Diagnostician**	: Don Baldridge
Test Package	: FLEET		

GFL Environmental - 955 - Montgomery
1121 Wilbanks St
Montgomery, AL
US 36108
Contact: LISA REEVES

T:
F:

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)