FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(62A1N7N) MONTGOMERY
Machine Id
MACK 428088
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

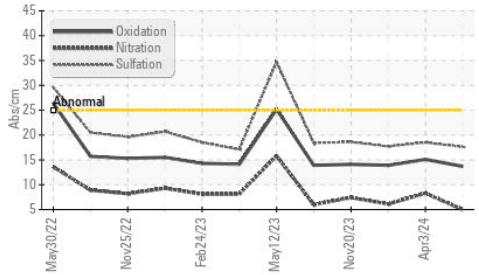
There is no indication of any contamination in the oil.

FLUID CONDITION

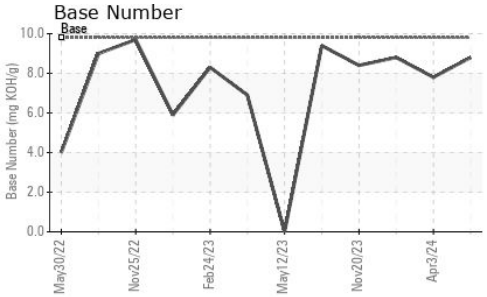
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0089936	GFL0080693	GFL0081858
Sample Date		Client Info		11 Apr 2024	03 Apr 2024	25 Jan 2024
Machine Age	mls	Client Info		255113	11570	243989
Oil Age	mls	Client Info		244449	906	233325
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>120	2	9	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	<1	2	1
Tin	ppm	ASTM D5185m	>15	<1	0	<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	2	5	4
Potassium	ppm	ASTM D5185m	>20	13	4	3
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	0.1	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.0	8.3	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	18.5	17.7
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		3	2	1
Boron	ppm	ASTM D5185m	0	7	5	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	62	58
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	922	1021	942
Calcium	ppm	ASTM D5185m	1070	1058	1164	1021
Phosphorus	ppm	ASTM D5185m	1150	1004	1109	1062
Zinc	ppm	ASTM D5185m	1270	1212	1328	1266
Sulfur	ppm	ASTM D5185m	2060	3607	4081	3289
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	15.1	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	7.8	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.3	13.7

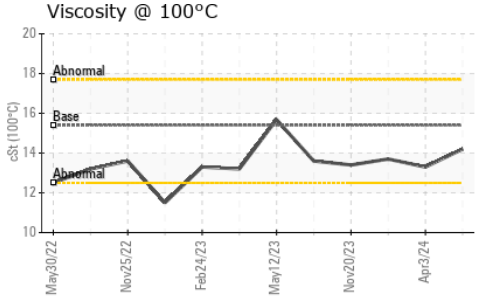
FT-IR (Direct Trend)



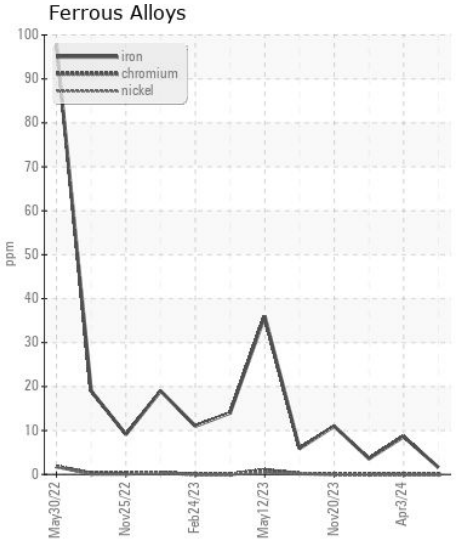
Base Number



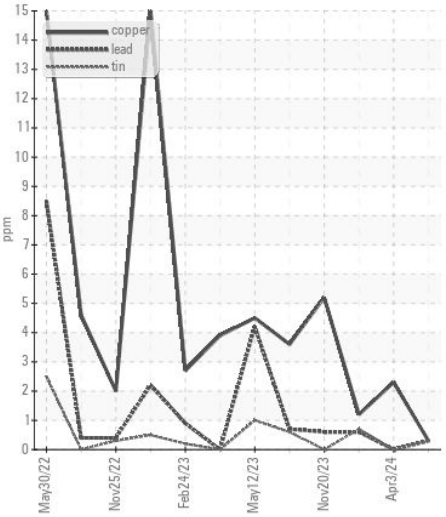
Viscosity @ 100°C



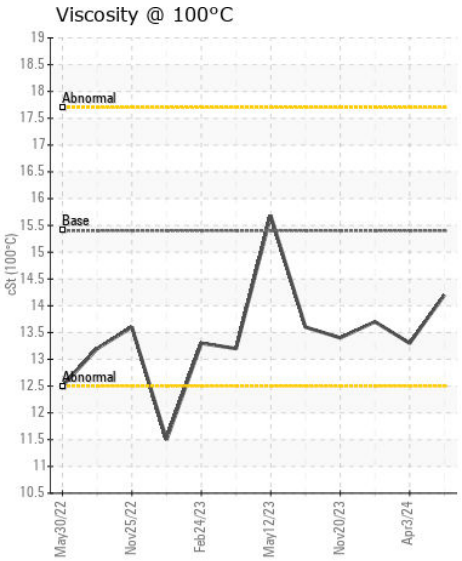
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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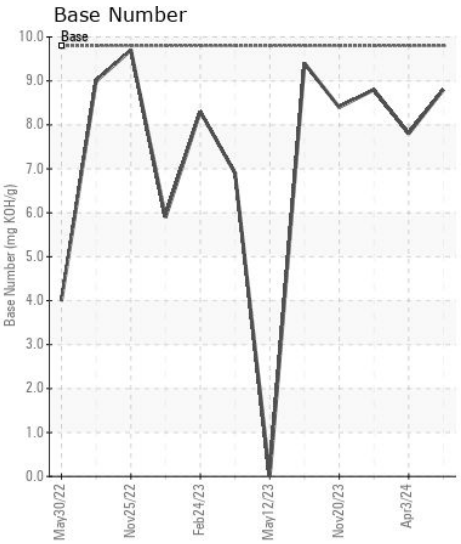

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0089936	**Received**	: 16 Apr 2024
Lab Number	: 06150990	**Tested**	: 17 Apr 2024
Unique Number	: 10981068	**Diagnosed**	: 17 Apr 2024 - Wes Davis
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)