FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
922014
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

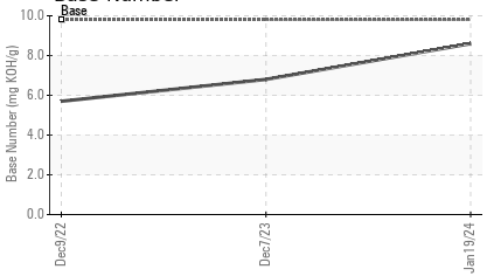
There is no indication of any contamination in the oil.

FLUID CONDITION

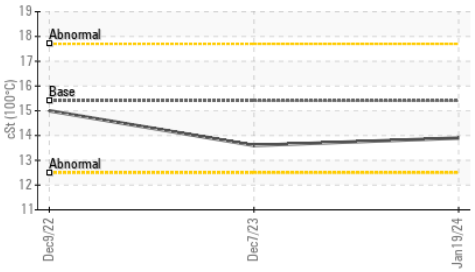
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0069925	GFL0069914	GFL0059586
Sample Date		Client Info		19 Jan 2024	07 Dec 2023	09 Dec 2022
Machine Age	hrs	Client Info		458	319886	2370
Oil Age	hrs	Client Info		458	0	2370
Filter Age	hrs	Client Info		458	0	2370
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>110	6	20	55
Chromium	ppm	ASTM D5185m	>4	<1	1	2
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	▲ 6	▲ 7
Lead	ppm	ASTM D5185m	>45	<1	4	⬢ 110
Copper	ppm	ASTM D5185m	>85	3	13	11
Tin	ppm	ASTM D5185m	>4	1	<1	3
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	19	⬢ 69	⬢ 45
Potassium	ppm	ASTM D5185m	>20	0	<1	▲ 550
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	⬢ 0.12
Soot %	%	*ASTM D7844	>3	0.2	0.4	1.2
Nitration	Abs/cm	*ASTM D7624	>20	6.0	8.3	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	23.4	26.5
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	1	▲ 321
Boron	ppm	ASTM D5185m	0	36	223	18
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	64	98	860
Manganese	ppm	ASTM D5185m	0	<1	2	1
Magnesium	ppm	ASTM D5185m	1010	876	673	319
Calcium	ppm	ASTM D5185m	1070	1071	1291	818
Phosphorus	ppm	ASTM D5185m	1150	954	712	320
Zinc	ppm	ASTM D5185m	1270	1121	831	357
Sulfur	ppm	ASTM D5185m	2060	2846	2482	2294
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	17.5	30.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	6.8	5.7
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.6	15.0

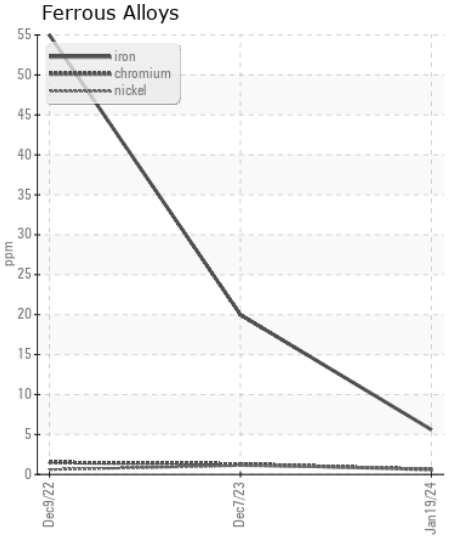
Base Number



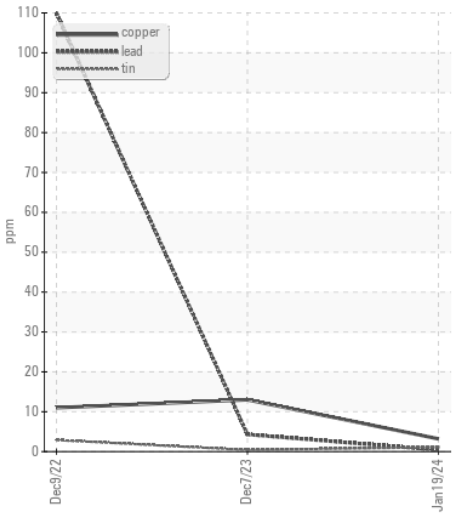
Viscosity @ 100°C



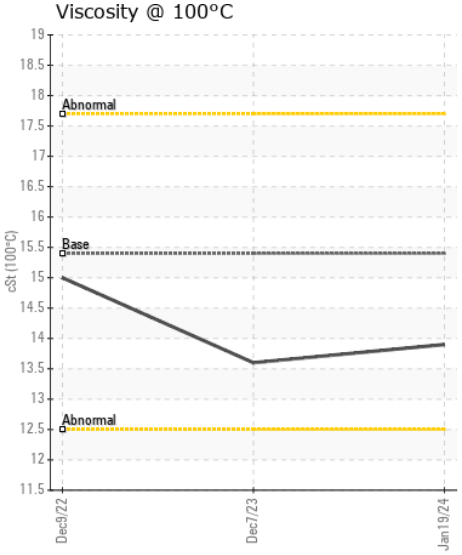
Ferrous Alloys



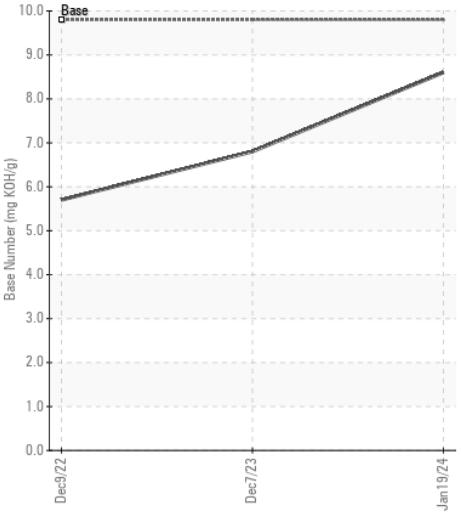
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0069925
Lab Number : 06083269
Unique Number : 10870714
Test Package : FLEET

Received : 08 Feb 2024
Tested : 08 Feb 2024
Diagnosed : 08 Feb 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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