FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
525033
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

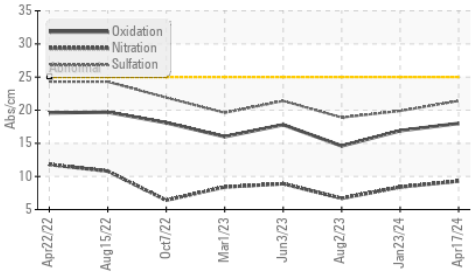
There is no indication of any contamination in the oil.

FLUID CONDITION

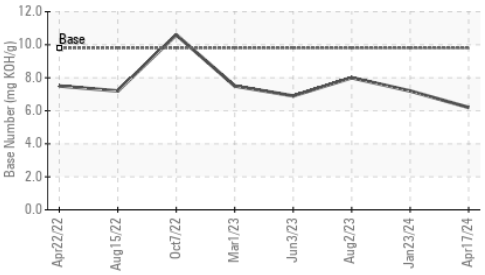
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0116199**	GFL0100394	GFL0077921
Sample Date		Client Info		**17 Apr 2024**	23 Jan 2024	02 Aug 2023
Machine Age	hrs	Client Info		**13750**	13154	12124
Oil Age	hrs	Client Info		**596**	486	602
Filter Age	hrs	Client Info		**596**	486	602
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>120	**16**	12	12
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	3	7
Titanium	ppm	ASTM D5185m	>2	**0**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**3**	2	3
Lead	ppm	ASTM D5185m	>40	**2**	2	<1
Copper	ppm	ASTM D5185m	>330	**23**	48	177
Tin	ppm	ASTM D5185m	>15	**2**	<1	<1
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	**5**	4	4
Potassium	ppm	ASTM D5185m	>20	**2**	2	6
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	**0.6**	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**9.3**	8.4	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.4**	19.9	18.9
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		**10**	8	15
Boron	ppm	ASTM D5185m	0	**4**	<1	0
Barium	ppm	ASTM D5185m	0	**0**	0	1
Molybdenum	ppm	ASTM D5185m	60	**63**	59	62
Manganese	ppm	ASTM D5185m	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	1010	**955**	964	978
Calcium	ppm	ASTM D5185m	1070	**1080**	1075	1058
Phosphorus	ppm	ASTM D5185m	1150	**1016**	965	995
Zinc	ppm	ASTM D5185m	1270	**1241**	1232	1223
Sulfur	ppm	ASTM D5185m	2060	**2714**	2527	2906
Oxidation	Abs/.1mm	*ASTM D7414	>25	**18.0**	16.9	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**6.2**	7.2	8.0
Visc @ 100°C	cSt	ASTM D445	15.4	**13.3**	13.6	13.7

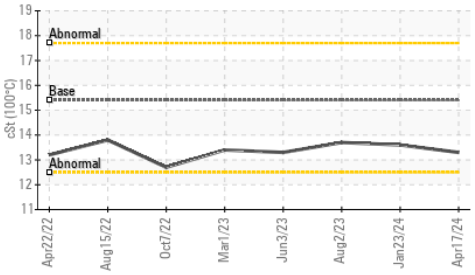
FT-IR (Direct Trend)



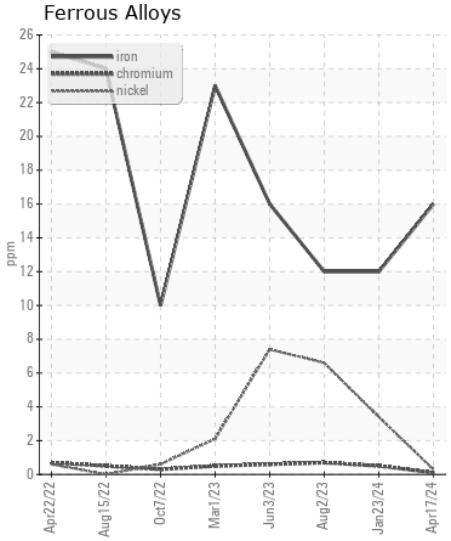
Base Number



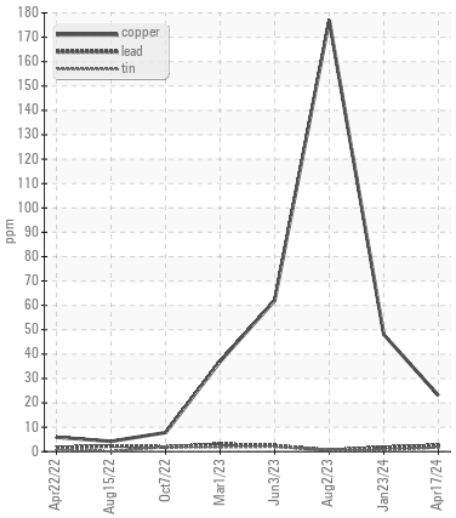
Viscosity @ 100°C



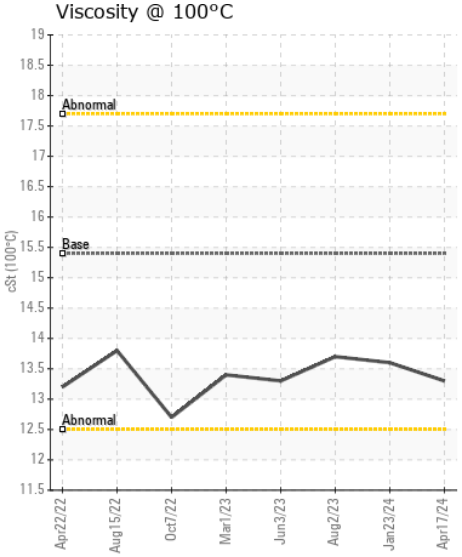
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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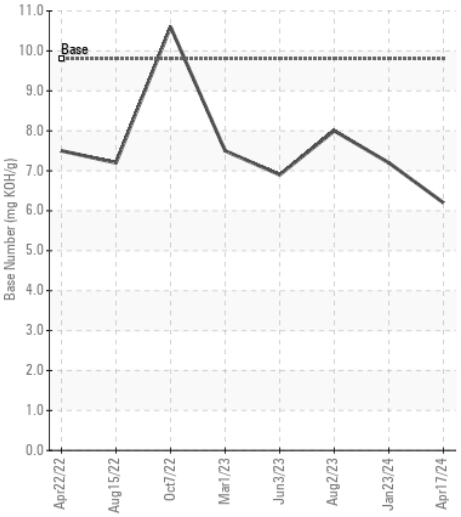

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0116199	**Received**	: 22 Apr 2024
Lab Number	: 06156784	**Tested**	: 23 Apr 2024
Unique Number	: 10992207	**Diagnosed**	: 23 Apr 2024 - 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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