FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
923056
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

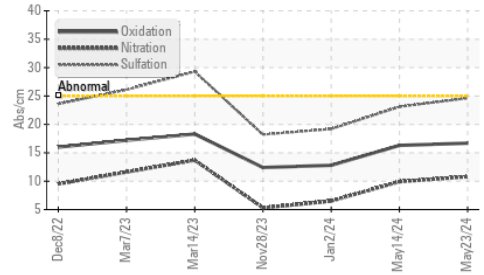
There is no indication of any contamination in the oil.

FLUID CONDITION

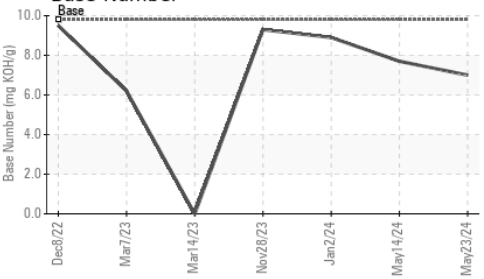
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0116708**	GFL0116687	GFL0100874
Sample Date		Client Info		**23 May 2024**	14 May 2024	02 Jan 2024
Machine Age	mls	Client Info		**509168**	497595	497595
Oil Age	mls	Client Info		**497595**	497595	2400
Filter Age	mls	Client Info		**0**	0	2400
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Filter Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>120	**61**	61	24
Chromium	ppm	ASTM D5185m	>20	**2**	<1	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	0	0
Titanium	ppm	ASTM D5185m	>2	**<1**	0	<1
Silver	ppm	ASTM D5185m	>2	**1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**2**	2	<1
Lead	ppm	ASTM D5185m	>40	**6**	4	<1
Copper	ppm	ASTM D5185m	>330	**5**	3	2
Tin	ppm	ASTM D5185m	>15	**<1**	<1	1
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	>25	**5**	4	2
Potassium	ppm	ASTM D5185m	>20	**5**	0	0
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	**3.1**	2.3	1.4
Nitration	Abs/cm	*ASTM D7624	>20	**10.8**	9.9	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	**24.6**	23.1	19.2
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		**2**	2	4
Boron	ppm	ASTM D5185m	0	**5**	6	8
Barium	ppm	ASTM D5185m	0	**<1**	0	<1
Molybdenum	ppm	ASTM D5185m	60	**63**	63	56
Manganese	ppm	ASTM D5185m	0	**1**	<1	<1
Magnesium	ppm	ASTM D5185m	1010	**920**	904	824
Calcium	ppm	ASTM D5185m	1070	**1143**	1056	1013
Phosphorus	ppm	ASTM D5185m	1150	**1014**	1001	987
Zinc	ppm	ASTM D5185m	1270	**1219**	1195	1113
Sulfur	ppm	ASTM D5185m	2060	**3093**	3064	2828
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.7**	16.3	12.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**7.0**	7.7	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	**14.2**	13.9	13.6

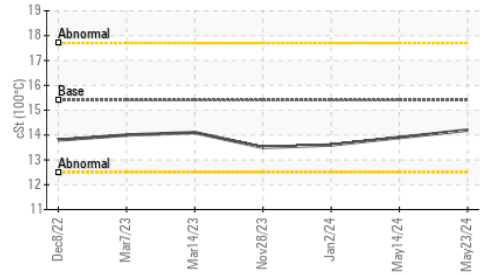
FT-IR (Direct Trend)



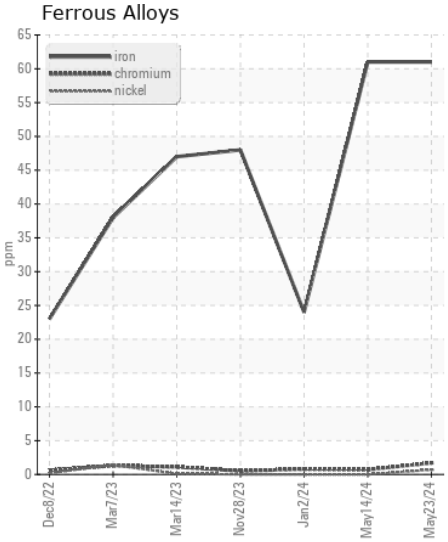
Base Number



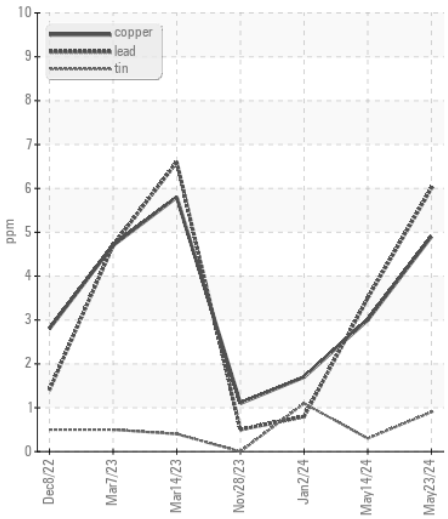
Viscosity @ 100°C



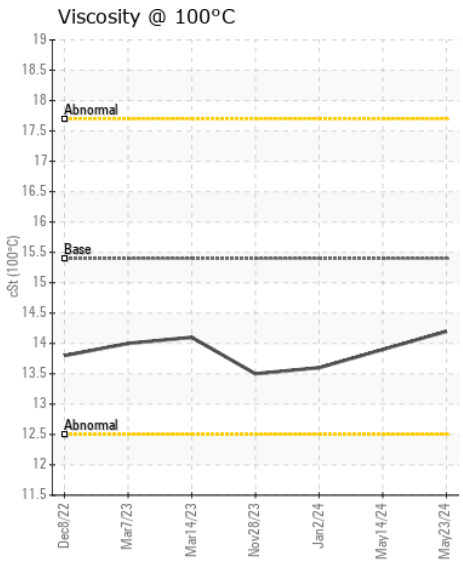
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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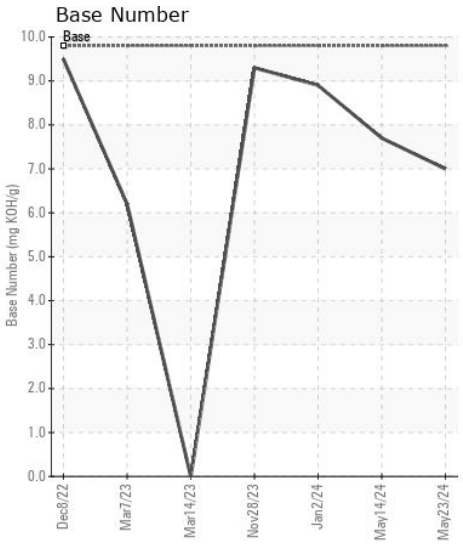

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0116708
Lab Number : 06191852
Unique Number : 11048604
Test Package : FLEET

Received : 28 May 2024
Tested : 29 May 2024
Diagnosed : 30 May 2024 - Sean Felton

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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