FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
834003
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

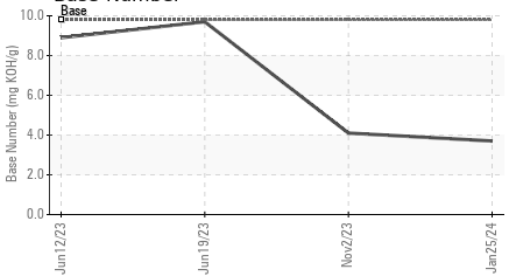
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

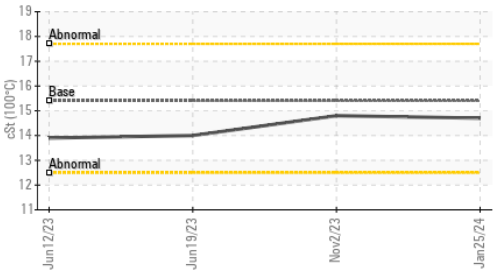
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0092169**	GFL0084640	GFL0084756
Sample Date		Client Info		**25 Jan 2024**	02 Nov 2023	19 Jun 2023
Machine Age	hrs	Client Info		**1853**	1210	36
Oil Age	hrs	Client Info		**600**	0	0
Filter Age	hrs	Client Info		**600**	0	0
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Filter Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	**13**	11	27
Chromium	ppm	ASTM D5185m	>4	**1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**1**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**44**	5	4
Lead	ppm	ASTM D5185m	>30	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>35	**<1**	2	11
Tin	ppm	ASTM D5185m	>4	**<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	>+100	**5**	8	31
Potassium	ppm	ASTM D5185m	>20	**166**	27	20
Water		WC Method	>0.1	**NEG**	NEG	NEG
Soot %	%	*ASTM D7844		**0**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**11.0**	10.7	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.2**	22.1	20.2
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	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**6**	6	4
Boron	ppm	ASTM D5185m	0	**8**	8	56
Barium	ppm	ASTM D5185m	0	**0**	0	1
Molybdenum	ppm	ASTM D5185m	60	**51**	53	51
Manganese	ppm	ASTM D5185m	0	**1**	2	13
Magnesium	ppm	ASTM D5185m	1010	**533**	663	797
Calcium	ppm	ASTM D5185m	1070	**1495**	1533	1206
Phosphorus	ppm	ASTM D5185m	1150	**641**	708	749
Zinc	ppm	ASTM D5185m	1270	**929**	1062	904
Sulfur	ppm	ASTM D5185m	2060	**2345**	2609	2895
Oxidation	Abs/.1mm	*ASTM D7414	>25	**18.4**	18.8	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**3.7**	4.1	9.7
Visc @ 100°C	cSt	ASTM D445	15.4	**14.7**	14.8	14.0

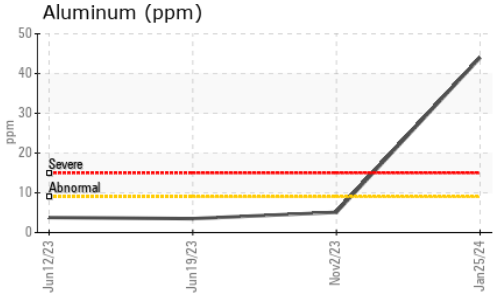
Base Number



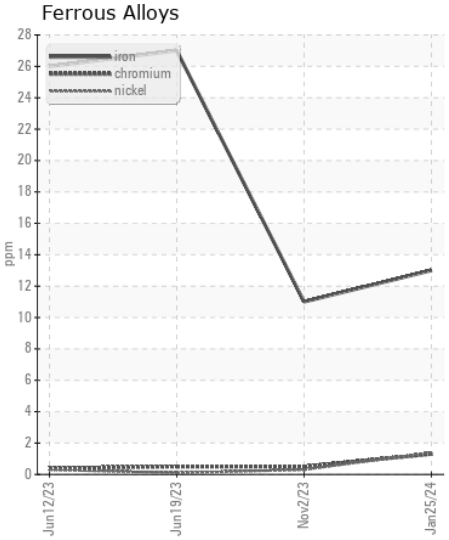
Viscosity @ 100°C



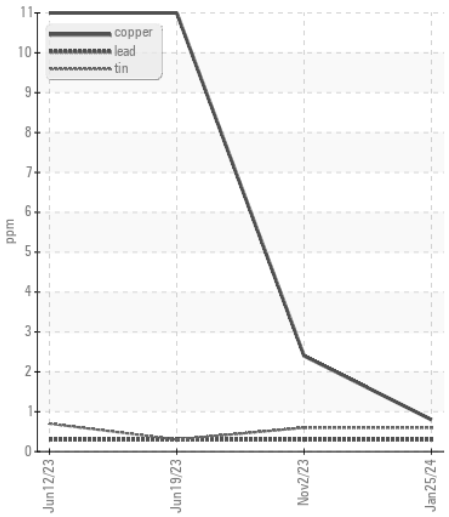
Aluminum (ppm)



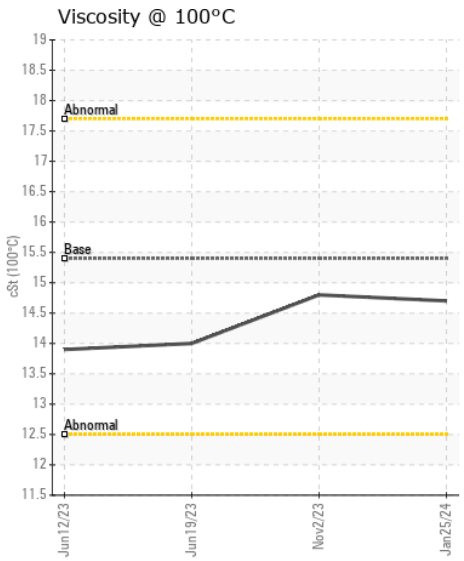
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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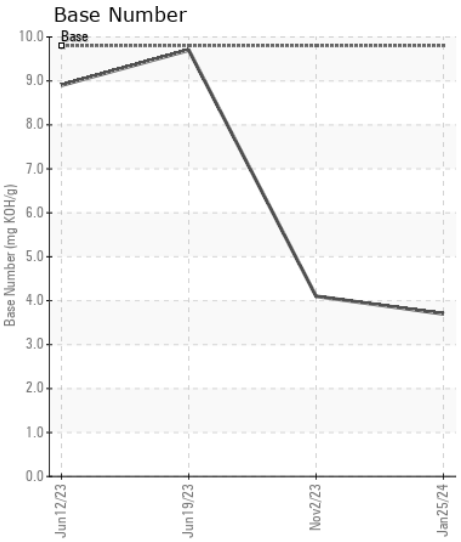

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0092169	**Recieved**	: 30 Jan 2024
Lab Number	: 06074434	**Diagnosed**	: 31 Jan 2024
Unique Number	: 10856525	**Diagnostician**	: Sean Felton
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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