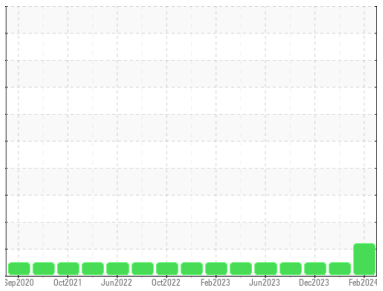
OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL

Machine Id
921056-205333
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (42 GAL)

DIAGNOSIS

▲ Recommendation
No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
Sodium and/or potassium levels are high. Test for glycol is negative.

▲ 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0101984**	GFL0101977	GFL0101964
Sample Date		Client Info		**21 Feb 2024**	26 Jan 2024	18 Dec 2023
Machine Age	hrs	Client Info		**1355**	1164	866
Oil Age	hrs	Client Info		**0**	1164	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**ATTENTION**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	**11**	5	8
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	1
Nickel	ppm	ASTM D5185m	>2	**0**	<1	<1
Titanium	ppm	ASTM D5185m	>2	**<1**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	2	<1
Lead	ppm	ASTM D5185m	>40	**0**	1	<1
Copper	ppm	ASTM D5185m	>330	**<1**	0	<1
Tin	ppm	ASTM D5185m	>15	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**4**	6	3
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	60	**59**	59	58
Manganese	ppm	ASTM D5185m	0	**<1**	<1	0
Magnesium	ppm	ASTM D5185m	1010	**827**	891	897
Calcium	ppm	ASTM D5185m	1070	**983**	990	1028
Phosphorus	ppm	ASTM D5185m	1150	**925**	1023	932
Zinc	ppm	ASTM D5185m	1270	**1077**	1224	1150
Sulfur	ppm	ASTM D5185m	2060	**2650**	3118	2937

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**3**	3	3
Sodium	ppm	ASTM D5185m		▲ **95**	47	23
Potassium	ppm	ASTM D5185m	>20	**29**	15	5
Glycol	%	*ASTM D2982		**NEG**	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	**0.9**	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	**7.9**	6.6	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.5**	19.5	19.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**15.4**	14.3	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**8.2**	8.5	8.7

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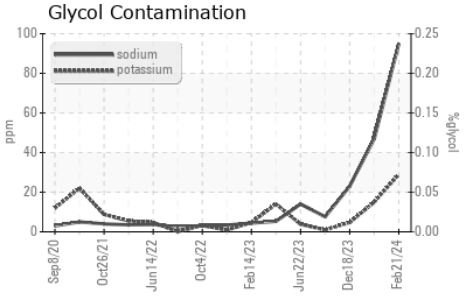
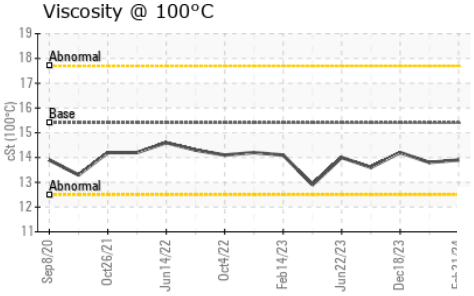
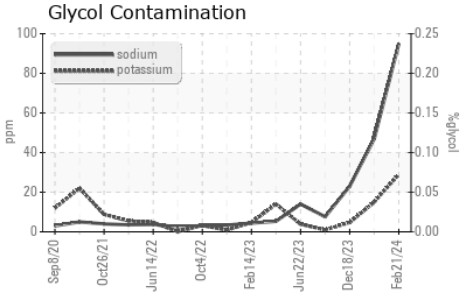
Glycol Contamination



Viscosity @ 100°C



Glycol Contamination

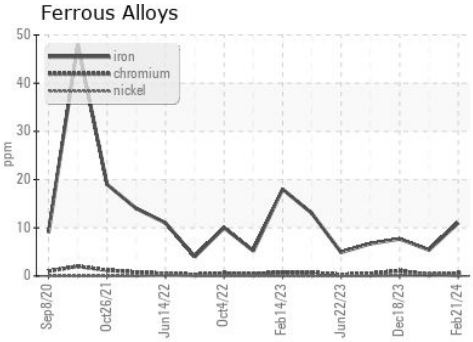


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

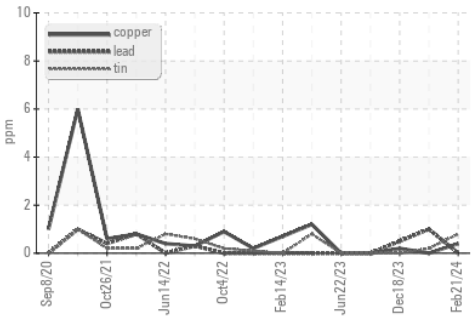
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	**13.9**	13.8	14.2

GRAPHS

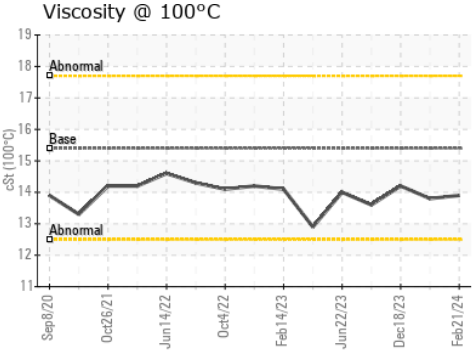
Ferrous Alloys



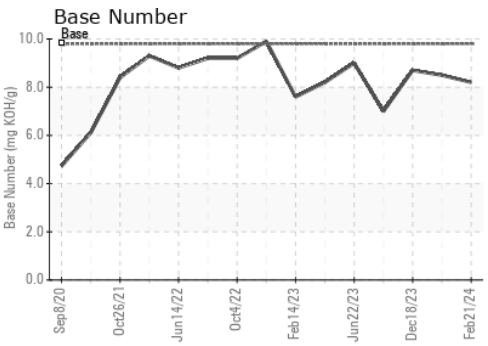
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0101984
Lab Number : 06096832
Unique Number : 10889685
Test Package : FLEET (Additional Tests: Glycol)

Received : 22 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Jonathan Hester

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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Report Id: GFL894 [WUSCAR] 06096832 (Generated: 02/26/2024 12:57:42) Rev: 1

Submitted By: Johnny Spurlock