FLEET WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
RTS
Machine Id
[RTS] 892
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (24 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

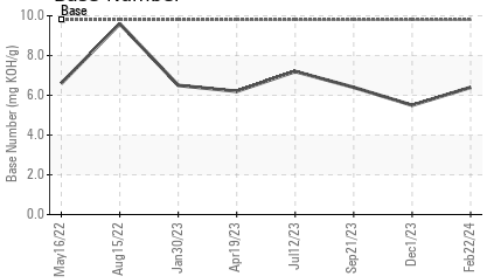
There is no indication of any contamination in the oil.

FLUID CONDITION

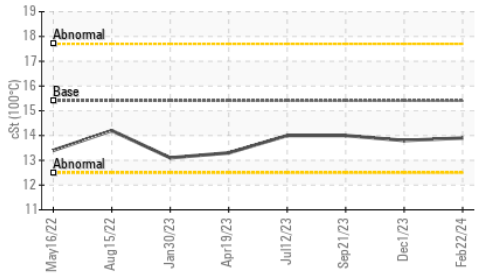
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0901433**	WC0843777	WC0843752
Sample Date		Client Info		**22 Feb 2024**	01 Dec 2023	21 Sep 2023
Machine Age	mls	Client Info		**38760**	407393	396196
Oil Age	mls	Client Info		**12000**	11197	10652
Filter Age	mls	Client Info		**12000**	11197	10652
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>75	**20**	22	16
Chromium	ppm	ASTM D5185m	>5	**1**	1	1
Nickel	ppm	ASTM D5185m	>4	**<1**	<1	0
Titanium	ppm	ASTM D5185m	>2	**0**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>15	**3**	2	2
Lead	ppm	ASTM D5185m	>25	**<1**	<1	0
Copper	ppm	ASTM D5185m	>100	**1**	<1	0
Tin	ppm	ASTM D5185m	>4	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**8**	6	5
Potassium	ppm	ASTM D5185m	>20	**3**	4	1
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	>6	**0.3**	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**11.7**	11.9	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.8**	23.3	22.1
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		**9**	7	8
Boron	ppm	ASTM D5185m	0	**6**	1	3
Barium	ppm	ASTM D5185m	0	**0**	5	0
Molybdenum	ppm	ASTM D5185m	60	**71**	69	66
Manganese	ppm	ASTM D5185m	0	**<1**	0	<1
Magnesium	ppm	ASTM D5185m	1010	**1101**	1013	1125
Calcium	ppm	ASTM D5185m	1070	**1211**	1176	1212
Phosphorus	ppm	ASTM D5185m	1150	**1185**	1060	1157
Zinc	ppm	ASTM D5185m	1270	**1439**	1297	1456
Sulfur	ppm	ASTM D5185m	2060	**3153**	3188	3458
Oxidation	Abs/.1mm	*ASTM D7414	>25	**21.4**	22.5	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**6.4**	5.5	6.4
Visc @ 100°C	cSt	ASTM D445	15.4	**13.9**	13.8	14.0

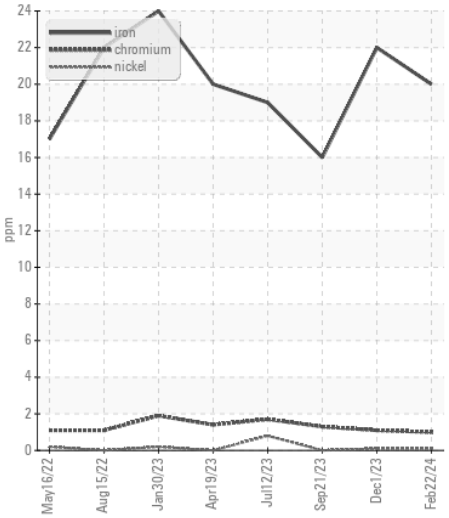
Base Number



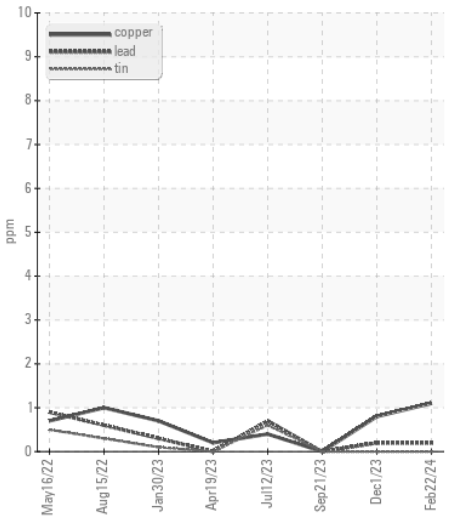
Viscosity @ 100°C



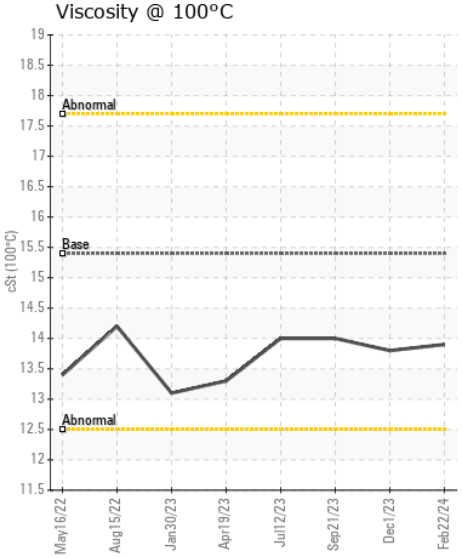
Ferrous Alloys



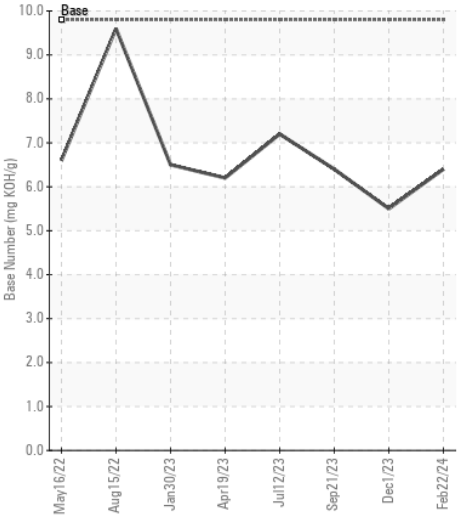
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: WC0901433	**Received**	: 28 Feb 2024
Lab Number	: 06103529	**Tested**	: 01 Mar 2024
Unique Number	: 10901759	**Diagnosed**	: 01 Mar 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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