



# PROBLEM SUMMARY

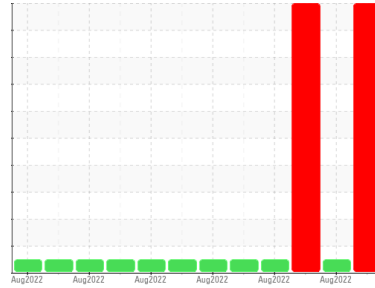
Sample Rating Trend

GLYCOL



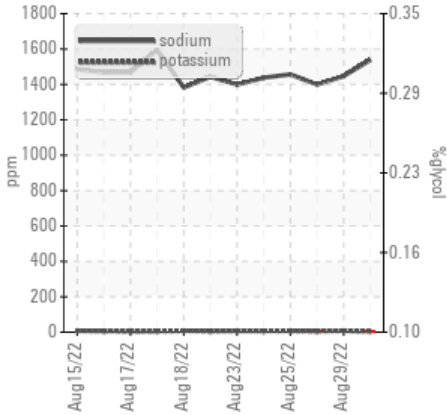
Area  
**WCLSNC**  
Machine Id  
**QC DE NC 08012022**

Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

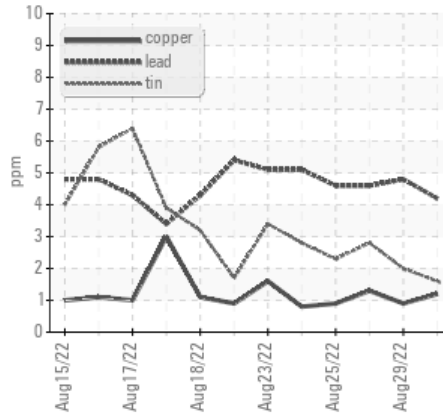


## COMPONENT CONDITION SUMMARY

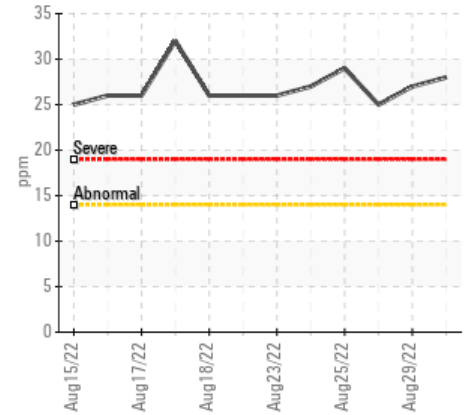
### Glycol Contamination



### Non-ferrous Metals



### Silicon (ppm)



## RECOMMENDATION

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	SEVERE
Silver	ppm	ASTM D5185m	>2	▲ 2	<1	<1
Lead	ppm	ASTM D5185m	>2	● 4	5	5
Tin	ppm	ASTM D5185m	>2	▲ 2	2	3
Boron	ppm	ASTM D5185m	0	▲ 35	37	▲ 40
Barium	ppm	ASTM D5185m	0	▲ 2	0	0
Molybdenum	ppm	ASTM D5185m	60	● 92	95	88
Silicon	ppm	ASTM D5185m	>14	● 28	27	▲ 25
Sodium	ppm	ASTM D5185m	>13	▲ 1538	1447	▲ 1399
Glycol	%	*ASTM D2982		● 0.10	NEG	● 0.10
Nitration	Abs/cm	*ASTM D7624	>10.8	● 12.5	12.4	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>20.8	● 24.5	23.9	24.0
Oxidation	Abs/.1mm	*ASTM D7414	>17.9	● 18.5	18.3	18.4

Customer Id: WEACARQA  
Sample No.: WC0729319  
Lab Number: 05630103  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
System Automation +1 905-569-8600 x230  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

### 29 Aug 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 26 Aug 2022 Diag: System

GLYCOL



view report



### 25 Aug 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

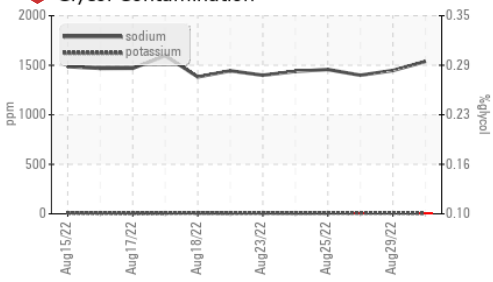




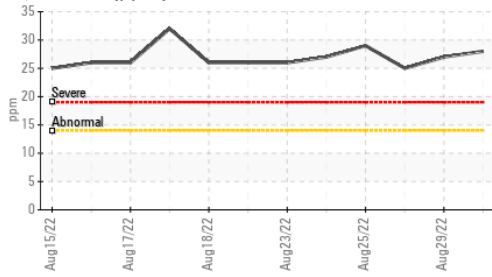


# OIL ANALYSIS REPORT

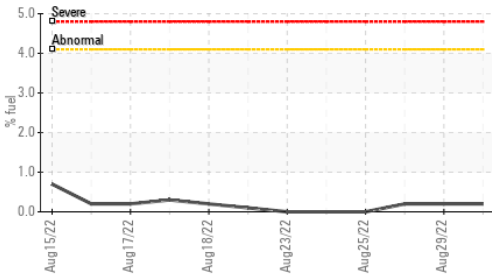
### Glycol Contamination



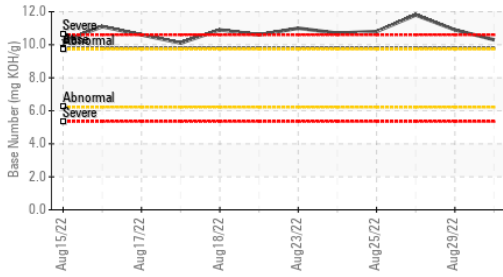
### Silicon (ppm)



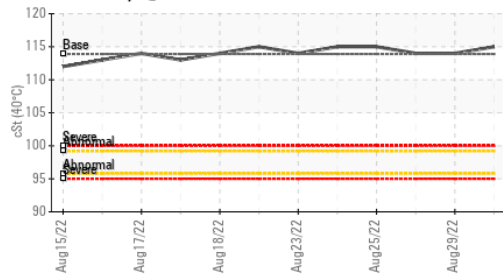
### Fuel Dilution



### Base Number



### Viscosity @ 40°C

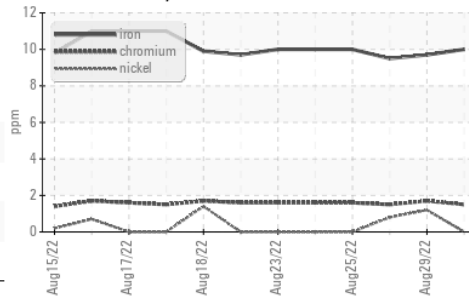


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

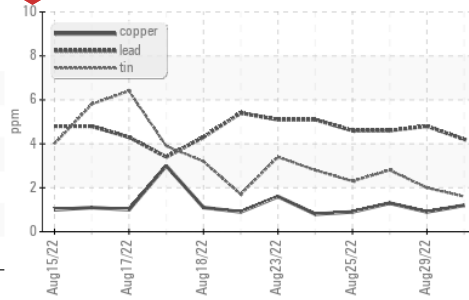
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	113.9	115	114
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.7
Viscosity Index (VI)	Scale	ASTM D2270	142	131	132

### GRAPHS

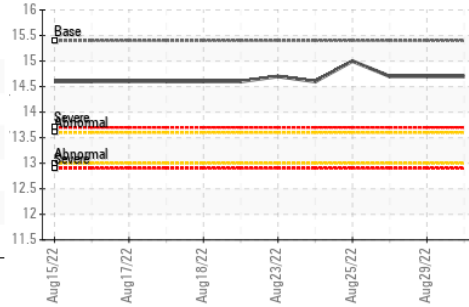
#### Ferrous Alloys



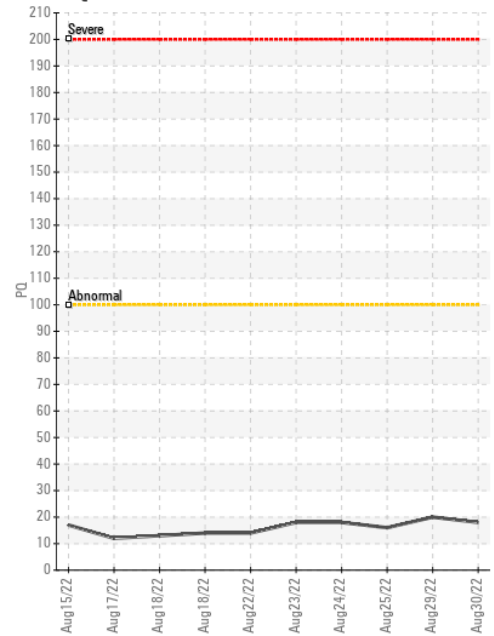
#### Non-ferrous Metals



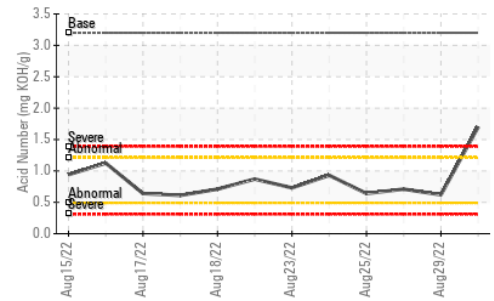
#### Viscosity @ 100°C



#### PQ



#### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0729319 **Received** : 30 Aug 2022  
**Lab Number** : 05630103 **Diagnosed** : 02 Oct 2023  
**Unique Number** : 10114624 **Diagnostician** : System

**WEARCHECK LUBRICATION SERVICES QA ACCOUNT**  
 501 Madison Ave  
 Cary, NC  
 US 27513

**Test Package** : FLEET ( Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, PQ, VI )

Contact: WCLS CARY NC  
 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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