**WEAR** CONTAMINATION **FLUID CONDITION** 

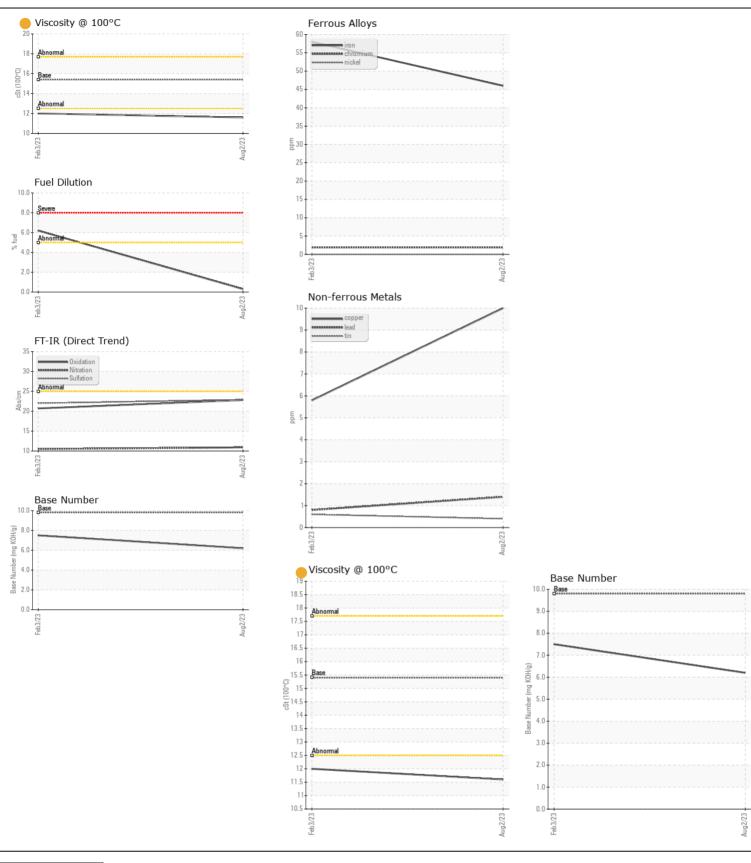
**NORMAL NORMAL ATTENTION** 

Machine Id

719
Component
Diesel Engine

PETRO CANADA DURON SHR 15W/10 (-UTC)

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0725874	WC0725868	
	Sample Date		Client Info		02 Aug 2023	03 Feb 2023	
	Machine Age	mls	Client Info		149914	144250	
	Oil Age	mls	Client Info		0	5000	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	ABNORMAL	
/EAR	Iron	ppm	ASTM D5185m	<100	46	58	
<b>LAN</b>	Chromium		ASTM D5185m		2	2	
All component wear rates are normal.		ppm					
	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m	•	12	<u>^</u> 25	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		3	6	
	Lead	ppm	ASTM D5185m		1	<1	
	Copper	ppm	ASTM D5185m		10	6	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	8	
	Potassium	ppm	ASTM D5185m	>20	0	2	
Fuel content negligible. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524		0.3	<u></u> 6.2	
	Water	, ,	WC Method		NEG	NEG	
	Glycol		WC Method	7 U.L	NEG	NEG	
	Soot %	%	*ASTM D7844	<b>\3</b>	0.7	0.7	
	Nitration	Abs/cm	*ASTM D7624		10.9	10.5	
	Sulfation	Abs/.1mm	*ASTM D7415		22.9	22.0	
	Silt		*Visual	NONE	NONE	NONE	
	Debris	scalar					
		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	
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	
	Boron	ppm	ASTM D5185m	0	27	32	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m	60	58	41	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m	1010	857	665	
	Calcium	ppm	ASTM D5185m		1169	1142	
	Phosphorus	ppm	ASTM D5185m		978	922	
	Zinc	ppm	ASTM D5185m		1151	1076	
	Sulfur	ppm	ASTM D5185m		3414	2925	
	Oxidation	Abs/.1mm	*ASTM D7414		22.8	20.7	
	Base Number (BN)				6.2	7.5	
	DUOC HUILIDEI (DIV)	my NOTI/y	10 IN D2000	0.0	J.2	7.0	







Certificate L2367

Laboratory Sample No.

: WC0725874 Lab Number : 05917130

Unique Number : 10589044

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 07 Aug 2023 : 08 Aug 2023 Diagnosed

: 08 Aug 2023 - Doug Bogart Test Package : FLEET ( Additional Tests: PercentFuel )

AREA TRANSPORTATION AUTHORITY 44 TRANSPORTATION CENTER JOHNSONBURG, PA

US 15845 Contact: J SCHLODER jschloder@rideata.com

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)

T:

F: