

OIL ANALYSIS REPORT

KDAC Machine Id 200276

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (40 LTR)

Sample Rating Trend Augi023 Augi023 0x2023



DIAGNOSIS

Recommendation

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

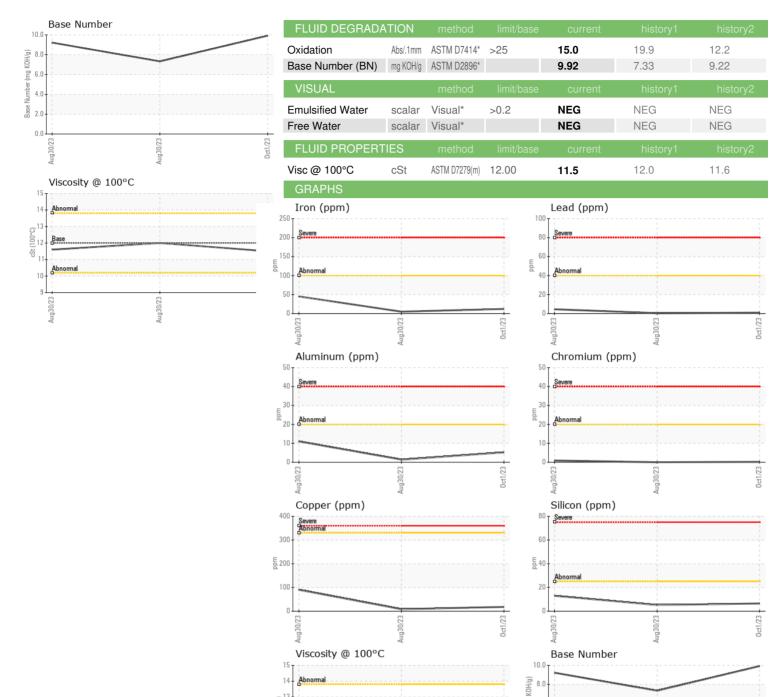
Fluid Condition

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

LTR) Aug ² 023 Aug ² 023 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0852039	WC0852036	WC0852025
Sample Date		Client Info		01 Oct 2023	30 Aug 2023	30 Aug 2023
Machine Age	hrs	Client Info		73360	59330	59331
Oil Age	hrs	Client Info		13685	59330	1
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	12	45	5
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	11	1
Lead	ppm	ASTM D5185(m)	>40	<1	4	<1
Copper	ppm	ASTM D5185(m)	>330	18	90	8
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	4	22	5
Barium	ppm	ASTM D5185(m)	0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	61	63	57
Manganese	ppm	ASTM D5185(m)	0	0	3	<1
Magnesium	ppm	ASTM D5185(m)	950	942	510	907
Calcium	ppm	ASTM D5185(m)	1050	1130	1721	1073
Phosphorus	ppm	ASTM D5185(m)	995	1016	1030	1057
Zinc	ppm	ASTM D5185(m)	1180	1203	1197	1144
Sulfur	ppm	ASTM D5185(m)	2600	2536	2207	2565
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	13	5
Sodium	ppm	ASTM D5185(m)		2	5	2
Potassium	ppm	ASTM D5185(m)	>20	12	36	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	6.1	9.2	4.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	23.9	18.4



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 02586055

ts:

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0852039 Received

: 5655121 Test Package : MOB 2

: 02 Oct 2023 Diagnosed : 02 Oct 2023 : Wes Davis Diagnostician

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To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

WFR Technical Services

5389 Riverside Drive Burlington, ON CA L7L 3Y1

Contact: William Ridley wfr.technical.services@gmail.com

T: F:

Submitted By: William Ridley