

OIL ANALYSIS REPORT

KDAC Machine Id 200288

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (40 LTR)

Sample Rating Trend Aug2023 Aug2023 Sup2023 Oct0223



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 oil

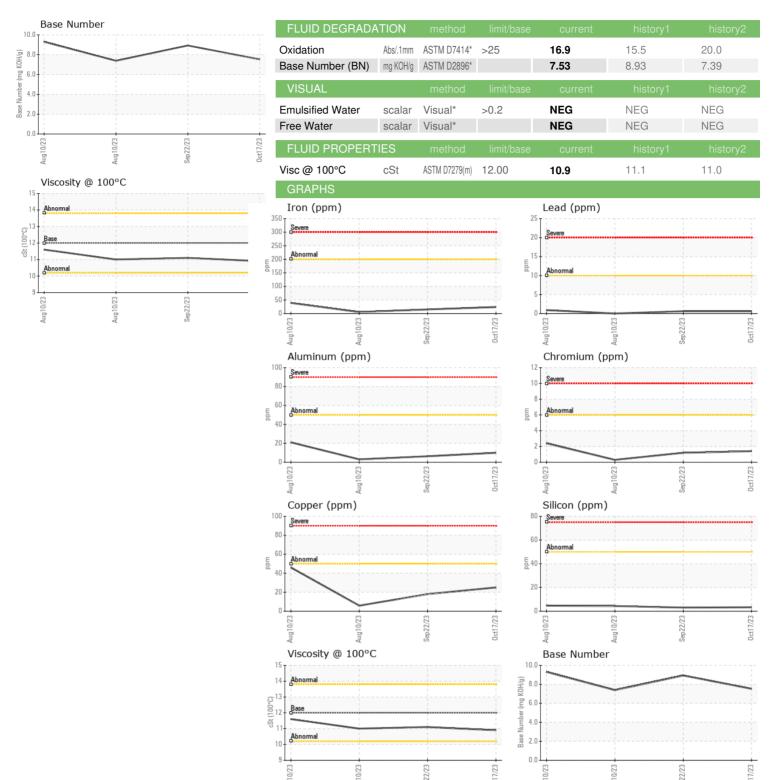
Fluid Condition

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

LIR)		Aug202	3 Aug2023	Sep 2023	Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864672	WC0852042	WC0814940
Sample Date		Client Info		17 Oct 2023	22 Sep 2023	10 Aug 2023
Machine Age	kms	Client Info		228087	215075	196768
Oil Age	kms	Client Info		31317	18305	57894
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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)	>200	24	15	39
Chromium	ppm	ASTM D5185(m)	>6	1	1	2
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>50	10	6	21
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>50	25	18	46
Tin	ppm	ASTM D5185(m)	>6	0	0	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	3	9	3
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	63	62	63
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	996	1003	1016
Calcium	ppm	ASTM D5185(m)	1050	1110	1115	1138
Phosphorus	ppm	ASTM D5185(m)	995	1005	1020	1009
Zinc	ppm	ASTM D5185(m)	1180	1211	1228	1209
Sulfur	ppm	ASTM D5185(m)	2600	2241	2479	1881
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	3	3	5
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	19	13	42
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.4	1
Nitration	Abs/cm	ASTM D7624*	>20	8.5	7.4	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	19.7	23.4



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Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: WC0864672 : 02589875

: 5658941

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 18 Oct 2023 Diagnosed : 19 Oct 2023

: Wes Davis Diagnostician

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

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