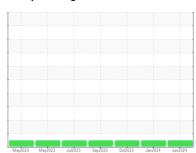


OIL ANALYSIS REPORT

Sample Rating Trend







KDAC Machine Id 200253

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (40 LTR)

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

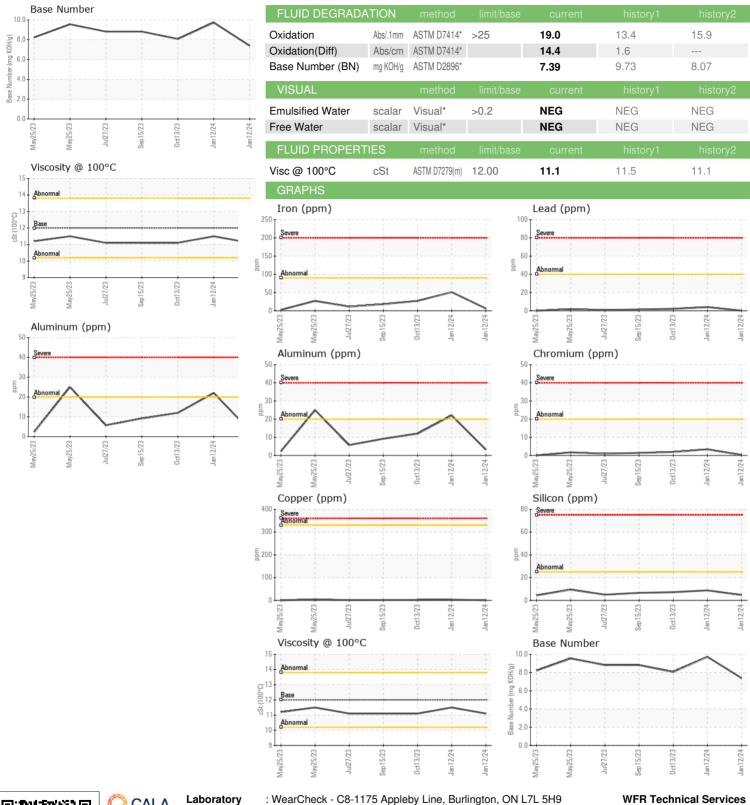
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LIR)		May2023	May2023 Jul2023	Sep2023 Oct2023 Jan2024	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	kms kms	Client Info Client Info Client Info Client Info Client Info		WC0888891 12 Jan 2024 183923 70971 Changed NORMAL	WC0888892 12 Jan 2024 183924 1 Not Changd NORMAL	WC0864670 13 Oct 2023 155461 42509 Not Changd NORMAL
CONTAMINATION		method	limit/base	-		history2
Fuel	V	WC Method	>3.0	<1.0	history1	<1.0
Water		WC Method	>0.2	<1.0 NEG	NEG	NEG
Glycol		WC Method	70. L	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	51	6	27
Chromium	ppm	ASTM D5185(m)	>20	3	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)		22	3	12
Lead	ppm	ASTM D5185(m)	>40	4	<1	2
Copper	ppm	ASTM D5185(m)	>330	3	<1	2
Tin	ppm	ASTM D5185(m)	>15	1	0	<1
Antimony	ppm	ASTM D5185(m)	710	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	7	5
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	61	57	61
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	976	931	969
Calcium	ppm	ASTM D5185(m)	1050	1090	1009	1083
Phosphorus	ppm	ASTM D5185(m)	995	992	981	976
Zinc	ppm	ASTM D5185(m)		1200	1122	1219
Sulfur	ppm	ASTM D5185(m)	2600	2431	2693	2420
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9	5	7
Sodium	ppm	ASTM D5185(m)		4	1	7
Potassium	ppm	ASTM D5185(m)	>20	54	6	33
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.4	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.9	4.8	8.2
Nitration(Diff)	Abs/cm	ASTM D7624*		1.2	0.2	
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	18.1	20.1
Sulfation(Diff)	Abs/cm	ASTM D7415*		7.6	0.4	
1 00 0E) D 1					0 1 ' 5	MORE DOLD

Submitted By: William Ridley



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 02610198

: WC0888891 : 5711284

Recieved Diagnosed

: 23 Jan 2024 : Kevin Marson Diagnostician

: 22 Jan 2024

Test Package : MOB 2 (Additional Tests: FT-IR(Diff)) 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