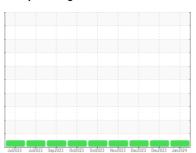


# **OIL ANALYSIS REPORT**

### Sample Rating Trend







## KDAC Machine Id 200251

Component **Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (40 LTR)

### 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

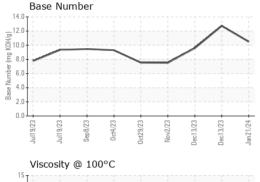
### **Fluid Condition**

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

LIR)		Jul2023 Ju	12023 Sep 2023 Oct2023	Oct2023 Nov2023 Dec2023 Dec20	23 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		WC0888889 21 Jan 2024 196636 14354 Not Changd NORMAL	WC0864699 13 Dec 2023 182282 63687 Changed NORMAL	WC0864700 13 Dec 2023 182283 1 N/A NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>3.0 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>90 >20 >2	11 <1 <1	3 0 <1	25 3 <1
Titanium Silver	ppm	ASTM D5185(m) ASTM D5185(m)	>2 >2	0	0 <1	0 <1
Aluminum Lead Copper	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >40 >330	9 <1 <1	3 <1 <1	30 2 2
Tin Antimony	ppm	ASTM D5185(m) ASTM D5185(m)	>15	0	0	1
Vanadium Beryllium Cadmium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0	0 0 0	0 0 0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	2 0 50	5 0 59	6 <1 57	4 <1 62
Manganese Magnesium Calcium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 950 1050	0 950 1081	0 916 1008	<1 966 1076
Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	995	1024 1174 2759	962 1120 2492	986 1211 2382
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base		history1	history2
Silicon Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25	3 1 15	4 1 4	8 2 59
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0	0.3
Nitration Nitration(Diff) Sulfation	Abs/cm Abs/.1mm	ASTM D7624* ASTM D7624* ASTM D7415*	>20	5.9 0.6 17.8	4.7  17.9	9.5  21.7
Sulfation(Diff)	Abs/cm	ASTM D7415*	200	0		

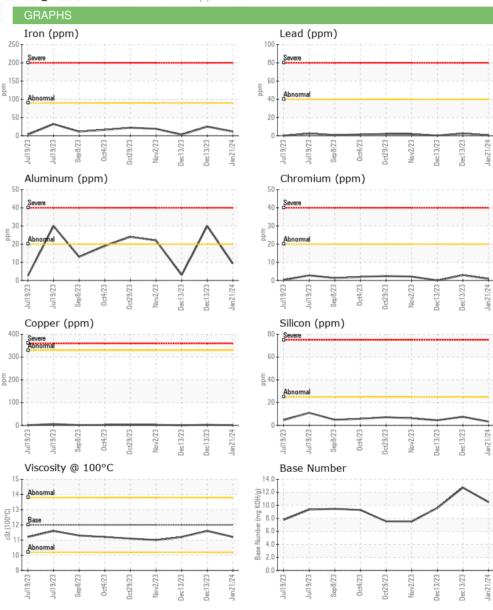


### **OIL ANALYSIS REPORT**





Abnormal						
Base						
			-	-		
Abnormal						
Jul19/23 Jul19/23	Sep8/23	Oct4/23	Oct29/23	Nov2/23	3/23	3/23
Jul19/	Sep	ő	Octí	9	Jec13/	Jec13,





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0888889 : 02610197 : 5711283

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

Recieved : 22 Jan 2024 Diagnosed : 23 Jan 2024

Diagnostician : Kevin Marson

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