

OIL ANALYSIS REPORT

Sample Rating Trend



Area **KDAC** Machine Id **200276** Component

Diesel Engine

Fluid 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 (AI) 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.

	ATION	methoa	iimit/base	current	TIIStOLA	TIIStoryz
Sample Number		Client Info		WC0955699	WC0926279	WC0926302
Sample Date		Client Info		05 Jul 2024	11 Jun 2024	12 May 2024
Machine Age	kms	Client Info		173856	164029	150861
Oil Age	kms	Client Info		44200	34373	21205
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	26	20	13
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	13	12	8
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	11	10	7
Tin	ppm	ASTM D5185(m)	>15	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	2	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	61	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	971	991	975
Calcium	ppm	ASTM D5185(m)	1050	1037	1075	1050
Phosphorus	ppm	ASTM D5185(m)	995	961	997	976
Zinc	ppm	ASTM D5185(m)	1180	1176	1199	1182
Sulfur	ppm	ASTM D5185(m)	2600	2341	2466	2507
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	7	6
Sodium	ppm	ASTM D5185(m)		2	3	2
Potassium	ppm	ASTM D5185(m)	>20	13	13	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.7	8.0	7.1
Nitration(Diff)	Abs/cm	ASTM E2412*	< 25	9.7	8.2	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	19.3	18.2
Sulfation(Diff)	Abs/cm	ASTM E2412*		3.7	1.9	0
8:45:43) Rev: 1					Submitted By	: William Ridley

Report Id: WFRBUR [WCAMIS] 02646040 (Generated: 07/09/2024 08:45:43) Rev: 1



OIL ANALYSIS REPORT











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

Received

Diagnosed

Tested

: 08 Jul 2024

: 09 Jul 2024

: 09 Jul 2024 - Kevin Marson

WFR Technical Services

14.6

7.6

9.96

NEG

NEG

11.1

lav12/24

5389 Riverside Drive Burlington, ON CA L7L 3Y1 Contact: William Ridley wfr.technical.services@gmail.com T: F:

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CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Lab Number : 02646040

Unique Number : 5811592

: WC0955699

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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

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.

Submitted By: William Ridley Page 2 of 2