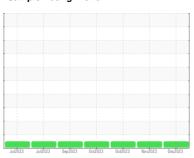


OIL ANALYSIS REPORT

Sample Rating Trend







KDAC Machine Id 200251 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.

-111)		Jul2023	Jul2023 Sep2023	Oct2023 Oct2023 Nov2023	Dec2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864700	WC0864682	WC0864675
Sample Date		Client Info		13 Dec 2023	02 Nov 2023	29 Oct 2023
Machine Age	kms	Client Info		182283	163670	163663
Oil Age	kms	Client Info		1	45075	45068
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	25	19	22
Chromium	ppm	ASTM D5185(m)	>20	3	2	2
Nickel	ppm	ASTM D5185(m)	>2	<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)	>20	30	22	24
Lead	ppm	ASTM D5185(m)	>40	2	2	2
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	1	<1	1
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	4	4
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	62	60	71
	ppm	ASTM D5185(m)	0	<1	0	<1
-	ppm	ASTM D5185(m)	950	966	956	1122
	ppm	ASTM D5185(m)	1050	1076	1055	1246
	ppm	ASTM D5185(m)	995	986	969	1142
	ppm	ASTM D5185(m)	1180	1211	1208	1409
	ppm	ASTM D5185(m)	2600	2382	2428	2847
	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	6	7
	ppm	ASTM D5185(m)		2	2	3
Potassium	ppm	ASTM D5185(m)	>20	59	45	50
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.3	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	9.5	8.6	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7	20.4	20.1



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

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

: WC0864700 : 02603375

: 5696460

Recieved : 15 Dec 2023 Diagnosed

: 20 Dec 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

5389 Riverside Drive Burlington, ON CA L7L 3Y1

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

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