

OIL ANALYSIS REPORT

Sample Rating Trend





Component Front Diesel Engine

PETRO CANADA DURON SHP 10W30 (28 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

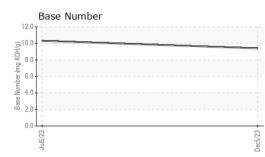
Fluid Condition

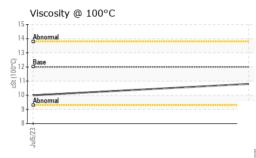
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

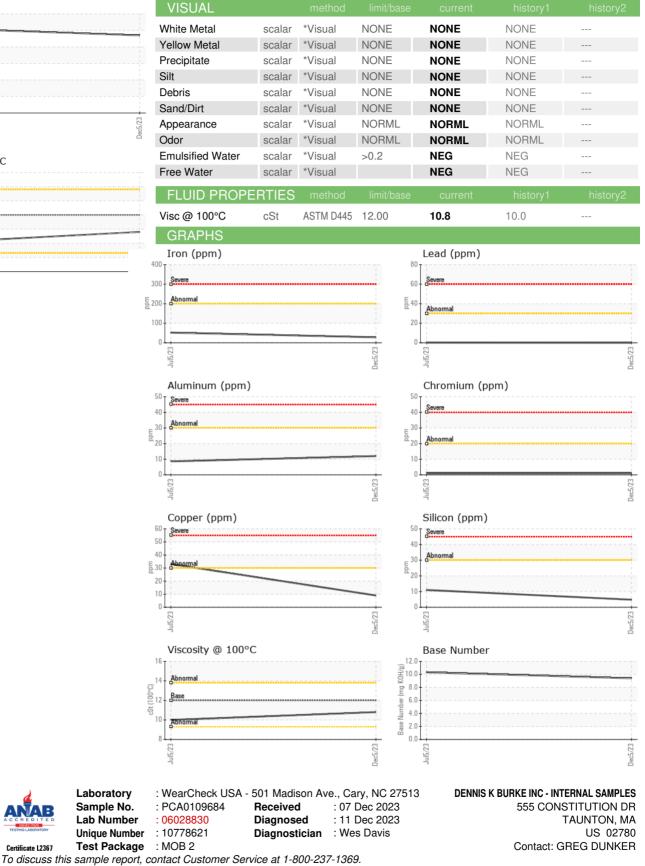
QTS)			Jul2023	Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109684	WC0570557	
Sample Date		Client Info		05 Dec 2023	05 Jul 2023	
Machine Age	mls	Client Info		18355	7100	
Oil Age	mls	Client Info		6000	7100	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.7	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	28	52	
Chromium	ppm	ASTM D5185m	>20	1	1	
Nickel	ppm	ASTM D5185m	>2	0	<1	
Titanium	ppm	ASTM D5185m	>2	5	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>30	12	9	
Lead	ppm	ASTM D5185m	>30	0	<1	
Copper	ppm	ASTM D5185m		9	33	
Tin	ppm		>15	<1	2	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	10	42	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	54	42	
Manganese	ppm	ASTM D5185m	0	2	9	
Magnesium	ppm	ASTM D5185m	950	873	504	
Calcium	ppm	ASTM D5185m	1050	1176	1553	
Phosphorus	ppm	ASTM D5185m	995	1002	683	
Zinc	ppm	ASTM D5185m	1180	1206	822	
Sulfur	ppm	ASTM D5185m	2600	2944	2513	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	11	
Sodium	ppm	ASTM D5185m		3	6	
Potassium	ppm	ASTM D5185m	>20	43	16	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	9.1	7.6	
Sulfation	Abs/.1mm		>30	19.4	22.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	21.6	
Base Number (BN)	mg KOH/g	ASTM D2896		9.40	10.32	



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Report Id: DENTAU [WUSCAR] 06028830 (Generated: 12/11/2023 07:52:19) Rev: 1

Certificate L2367

Laboratory

Sample No.

Lab Number

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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