

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id D-21 Component Diesel Engine Fluid PETRO CANADA DURON HP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

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.

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SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0094323	PCA0083716	PCA0066208
Sample Date		Client Info		20 Apr 2023	25 Nov 2022	03 Oct 2022
Machine Age	hrs	Client Info		12994	11937	11375
Oil Age	hrs	Client Info		500	500	1000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	2 .0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	19	12	26
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	5
Lead	ppm	ASTM D5185m	>40	1	5	14
Copper	ppm	ASTM D5185m	>330	5	5	6
Tin	ppm	ASTM D5185m	>15	<1	1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	9	38
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		58	52	3
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		954	851	22
Calcium	ppm	ASTM D5185m		1101	1206	2161
Phosphorus	ppm	ASTM D5185m		1051	946	794
Zinc	ppm	ASTM D5185m		1289	1192	1014
Sulfur	ppm	ASTM D5185m		3798	3443	3588
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	14
Sodium	ppm	ASTM D5185m		12	28	44
Potassium	ppm	ASTM D5185m	>20	2	4	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.7	14.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	21	28.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	17.6	23.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.93	8.75	4.28



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