

OIL ANALYSIS REPORT

FARIBAULT [FARIBAULT] Unit 04 DB020104E Component

Natural Gas Engine

PETRO CANADA DURON MONOGRADE HD 40W (350 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 276 gallons of lube oil added this month.)

Wear

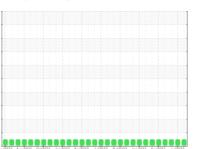
All component wear rates are normal.

Contamination

Fuel content negligible. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Sample Rating Trend

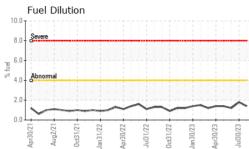


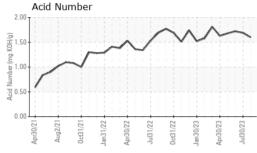
NORMAL

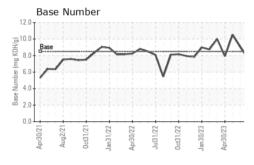
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0098878	PCA0098876	PCA0098874
Sample Date		Client Info		05 Sep 2023	30 Jul 2023	30 Jun 2023
Machine Age	hrs	Client Info		14352	14019	13804
Oil Age	hrs	Client Info		14352	14019	13804
Oil Changed		Client Info		Oil Added	Not Changd	Oil Added
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	4	3
Chromium	ppm	ASTM D5185m	>4	1	4	3
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m		<1	2	<1
Lead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	3	2
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1001	1234	915
Calcium	ppm	ASTM D5185m		1160	1412	1130
Phosphorus	ppm	ASTM D5185m		1180	1517	1213
Zinc	ppm	ASTM D5185m		1447	1788	1356
Sulfur	ppm	ASTM D5185m		3916	4792	3433
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	4
Sodium	ppm	ASTM D5185m		2	3	0
Potassium	ppm	ASTM D5185m	>20	0	1	2
Fuel	%	ASTM D3524	>4.0	1.4	1.8	1.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	3.8	3.7	3.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	12.5	12.7	13.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.2	6.6	6.6
Acid Number (AN)	mg KOH/g	ASTM D8045		1.60	1.69	1.72
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.59	7.68	9.07

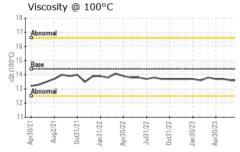


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Certificate L2367

Laboratory

Sample No.

F: