

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **730** Component **Diesel Engine** Fluid **PETRO CANADA DURON HP 15W40 (--- GAL)**

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

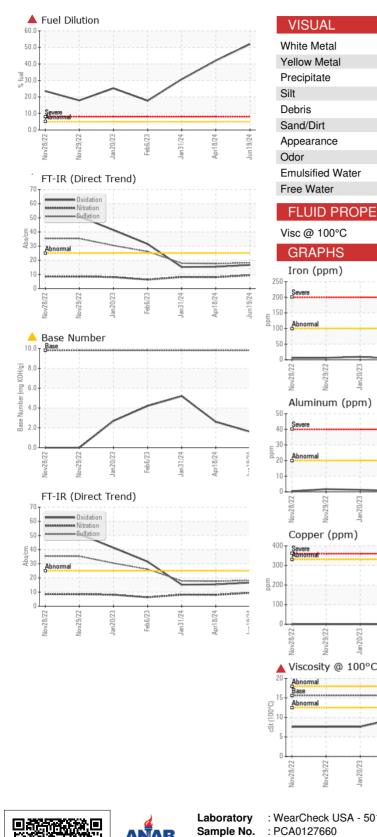
Fluid Condition

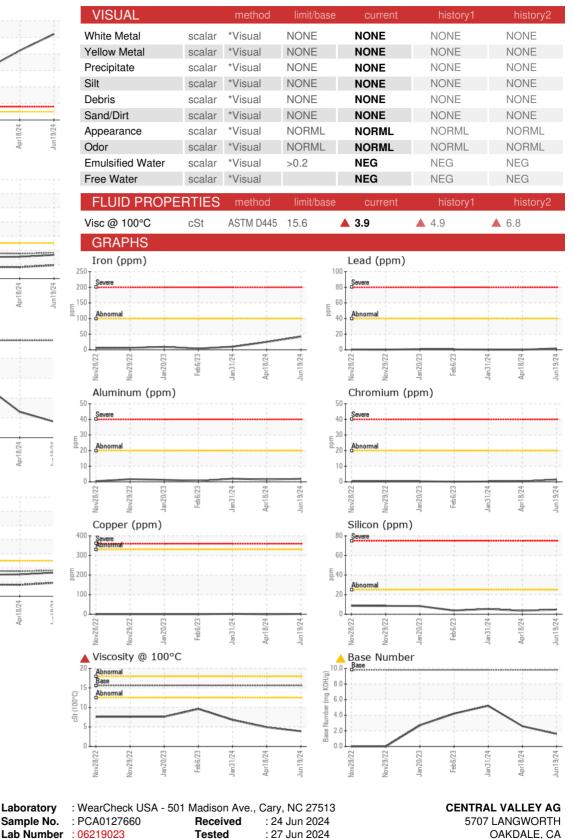
The BN level is low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0127660	PCA0118133	PCA0096407
Sample Date		Client Info		19 Jun 2024	18 Apr 2024	31 Jan 2024
Machine Age	hrs	Client Info		15516	14826	14042
Oil Age	hrs	Client Info		690	784	500
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	42	25	10
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	2	0	<1
Copper	ppm	ASTM D5185m	>330	1	0	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		28	34	40
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		455	566	606
Calcium	ppm	ASTM D5185m		551	643	749
Phosphorus	ppm	ASTM D5185m		517	591	712
Zinc	ppm	ASTM D5185m		636	750	823
Sulfur	ppm	ASTM D5185m		1635	2083	1935
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	5
Sodium	ppm	ASTM D5185m		3	1	3
Potassium	ppm	ASTM D5185m	>20	5	0	2
Fuel	%	ASTM D3524	>5	52.0	4 2.0	▲ 30.7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.1	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.6	17.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	15.4	15.2
Base Number (BN)	mg KOH/g	ASTM D2896		<u>▲</u> 1.6	▲ 2.6	5.2
(=)	0.0.00					-



OIL ANALYSIS REPORT





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* - 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)

Certificate 12367

Report Id: CENOAK [WUSCAR] 06219023 (Generated: 06/28/2024 10:54:20) Rev: 1

Unique Number : 11097220

Diagnosed

Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 27 Jun 2024 - Don Baldridge

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