

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **371M** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (36 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

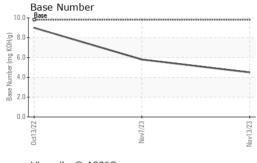
Fluid Condition

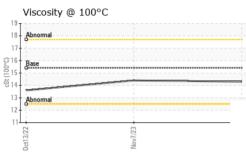
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

QTS)		0c	2022	Nov2023 Nov20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059252	GFL0059145	GFL0059180
Sample Date		Client Info		13 Nov 2023	07 Nov 2023	13 Oct 2022
Machine Age	hrs	Client Info		14018	13980	11563
Oil Age	hrs	Client Info		14018	2417	11563
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	86	72	27
Chromium	ppm	ASTM D5185m	>20	5	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	3	0
Aluminum	ppm	ASTM D5185m	>20	8	5	14
Lead	ppm	ASTM D5185m	>40	2	<1	0
Copper	ppm	ASTM D5185m	>330	3	6	2
Tin	ppm	ASTM D5185m	>15	1	0	0
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	0	5	0	0
Barium	ppm	ASTM D5185m	0	0	6	0
Molybdenum	ppm	ASTM D5185m	60	64	67	53
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	1010	964	944	869
Calcium	ppm	ASTM D5185m	1070	1110	1185	1007
Phosphorus	ppm	ASTM D5185m	1150	1052	1040	921
Zinc	ppm	ASTM D5185m	1270	1324	1269	1203
Sulfur	ppm	ASTM D5185m	2060	2639	3038	3153
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	14	9
Sodium	ppm	ASTM D5185m		11	0	22
Potassium	ppm	ASTM D5185m	>20	0	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6	0.9	0.4
Nitration	Abs/cm	*ASTM D7624	>20	17.1	13.2	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.7	25.0	21.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.9	25.8	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.5	5.8	9.0



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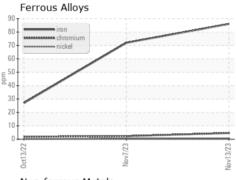


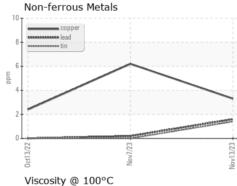


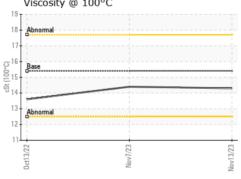
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

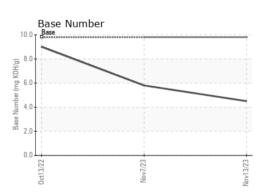
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.4	13.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10749716 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0059252 : 06010572

Received Diagnosed Diagnostician : Sean Felton

: 17 Nov 2023 : 20 Nov 2023

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish bdgheish@gflenv.com

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

* - 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)

T: (734)714-2340