

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 913009 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

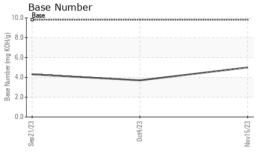
Fluid Condition

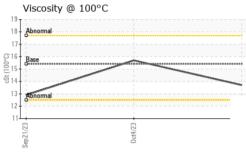
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

`		Sep	12023	Oct2023 Nov20		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059269	GFL0084978	GFL0084944
Sample Date		Client Info		15 Nov 2023	04 Oct 2023	21 Sep 2023
Machine Age	hrs	Client Info		2693	2742	2157
Oil Age	hrs	Client Info		2693	585	2157
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	61	85	48
Chromium	ppm	ASTM D5185m	>20	2	3	2
Nickel	ppm	ASTM D5185m	>5	5	1	2
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	4	1
Lead	ppm	ASTM D5185m	>40	<1	6	0
Copper	ppm	ASTM D5185m	>330	13	2	39
Tin	ppm	ASTM D5185m	>15	2	<1	3
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	63	70
Manganese	ppm	ASTM D5185m	0	1	1	2
Magnesium	ppm	ASTM D5185m	1010	962	979	978
Calcium	ppm	ASTM D5185m	1070	1107	1112	1184
Phosphorus	ppm	ASTM D5185m	1150	1029	1101	1000
Zinc	ppm	ASTM D5185m	1270	1307	1344	1300
Sulfur	ppm	ASTM D5185m	2060	2270	2851	2846
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	10	10
Sodium	ppm	ASTM D5185m		5	34	8
Potassium	ppm	ASTM D5185m	>20	2	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.3	1.5	0.9
Nitration	Abs/cm	*ASTM D7624	>20	11.1	13.7	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	25.0	22.4
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	26.1	19.9
Base Number (BN)	mg KOH/g	ASTM D2896		5.0	△ 3.7	4.3
Dase Mulliber (DIM)						



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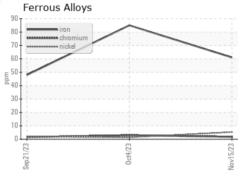


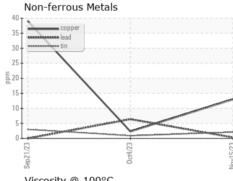


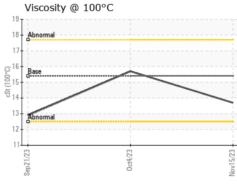
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

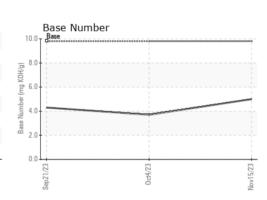
L LOID PROPI	ERITES	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	15.7	12.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10749697 Test Package : FLEET

: GFL0059269 : 06010553

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Nov 2023

Diagnosed Diagnostician : Wes Davis

: 17 Nov 2023

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)

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Contact: Tony Esquina tesquina@gflenv.com

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