

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3725
Component
Diesel Engine

Diesei Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

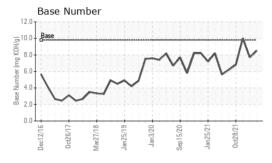
Fluid Condition

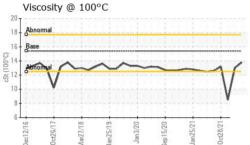
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		:2016 Oct20	117 Mar2018 Jan2019	Jan2020 Sep2020 Jan2021	0ct2021	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0083641	GFL0074600	GFL0041222
Sample Date		Client Info		30 Jun 2023	10 May 2023	06 Feb 2022
Machine Age	hrs	Client Info		16874	16491	13719
Oil Age	hrs	Client Info		383	13430	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	0.5	27.2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>75	20	48	▲ 87
Chromium	ppm	ASTM D5185m	>5	<1	2	4
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	1	6	13
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	1	0	10
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	11	10	42
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	69	26
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	894	917	472
Calcium	ppm	ASTM D5185m	1070	1111	1033	1062
Phosphorus	ppm	ASTM D5185m	1150	992	996	595
Zinc	ppm	ASTM D5185m	1270	1236	1290	682
Sulfur	ppm	ASTM D5185m	2060	3540	3839	1958
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	5	6	13
Sodium	ppm	ASTM D5185m		58	62	42
Potassium	ppm	ASTM D5185m	>20	3	4	7
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.6	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.8	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	19.6	20.1
FLUID DEGRAI	OATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.9	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	7.7	10



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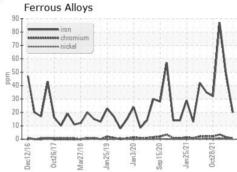


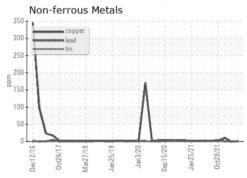


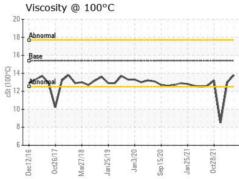
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

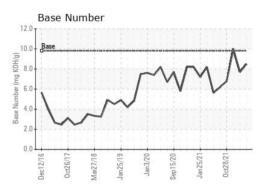
FLUID PROPE	RHES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.0	▲ 8.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0083641 : 05891966 : 10547776

Received : 07 Jul 2023 Diagnosed Diagnostician

: 07 Jul 2023

: Wes Davis

GFL Environmental - 095 - Atlanta West 2699 Cochran Industrial Blvd

Douglasville, GA US 30127-1332 Contact: Darrell Welch darrell.welch@gflenv.com T: (800)207-6618

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)