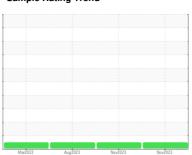


OIL ANALYSIS REPORT

Sample Rating Trend









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

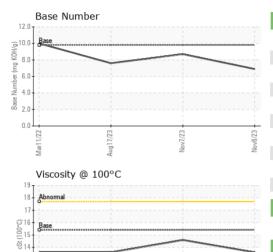
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

0.4401-5-11-5-5-						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059156	GFL0059137	GFL0085042
Sample Date		Client Info		08 Nov 2023	07 Nov 2023	17 Aug 2023
Machine Age	hrs	Client Info		21290	21272	83046
Oil Age	hrs	Client Info		21290	0	66726
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL		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	>90	31	26	23
Chromium	ppm	ASTM D5185m	>20	<1	3	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	△ 32	2
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	2	7	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
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	0	<1	2
Barium	ppm	ASTM D5185m	0	6	6	0
Molybdenum	ppm	ASTM D5185m	60	61	64	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	881	908	964
Calcium	ppm	ASTM D5185m	1070	1060	1095	1118
Phosphorus	ppm	ASTM D5185m	1150	995	1021	1025
Zinc	ppm	ASTM D5185m	1270	1177	1187	1252
Sulfur	ppm	ASTM D5185m	2060	3153	3267	3411
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	11	6
Sodium	ppm	ASTM D5185m		0	42	7
Potassium	ppm	ASTM D5185m	>20	8	▲ 60	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.8	7.8	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	19.3	20.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	14.6	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	8.7	7.6



13

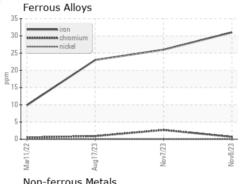
OIL ANALYSIS REPORT

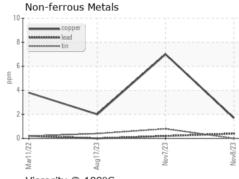


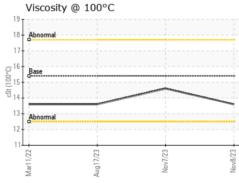
			limit/base	current	history1	history2
White Metal so	calar '	*Visual	NONE	NONE	NONE	NONE
Yellow Metal so	calar '	*Visual	NONE	NONE	NONE	NONE
Precipitate so	calar '	*Visual	NONE	NONE	NONE	NONE
Silt	calar '	*Visual	NONE	NONE	NONE	NONE
Debris so	calar '	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt so	calar '	*Visual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

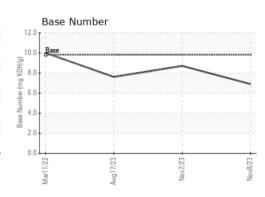
FLUID PROPE	EKIIES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.6	13.6

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10740474 Test Package : FLEET

: GFL0059156 : 06006712

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 14 Nov 2023 : 14 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340

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)