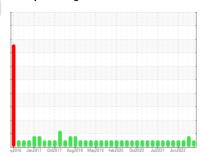


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 3681 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (46 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.

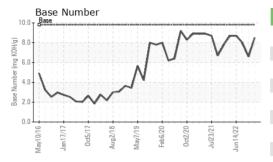
Fluid Condition

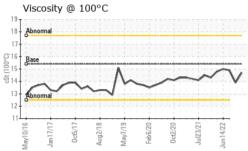
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0061882	GFL0052256	GFL0042734
Sample Date		Client Info		12 Sep 2023	25 Apr 2023	20 Sep 2022
Machine Age	hrs	Client Info		30443	29722	28664
Oil Age	hrs	Client Info		30443	29722	671
Oil Changed		Client Info		Not Changd	Changed	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	>75	39	▲ 87	40
Chromium	ppm	ASTM D5185m	>5	1	3	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	8	5
Lead	ppm	ASTM D5185m	>25	1	10	2
Copper	ppm	ASTM D5185m	>100	<1	2	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	8	8
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	60	67	67	75
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	1092	1057	1047
Calcium	ppm	ASTM D5185m	1070	1248	1264	1299
Phosphorus	ppm	ASTM D5185m	1150	1110	1114	1171
Zinc	ppm	ASTM D5185m	1270	1380	1438	1415
Sulfur	ppm	ASTM D5185m	2060	3796	3101	3851
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	13	7
Sodium	ppm	ASTM D5185m		4	5	4
Potassium	ppm	ASTM D5185m	>20	<1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.9	2.1	1.2
Nitration	Abs/cm	*ASTM D7624	>20	9.5	15.7	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	30.7	27.0
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	29.0	23.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	6.6	8



OIL ANALYSIS REPORT

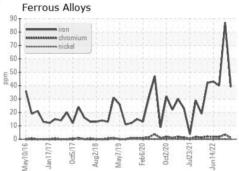


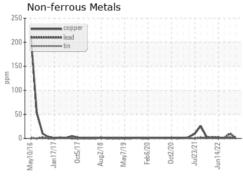


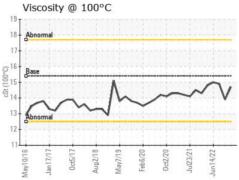
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

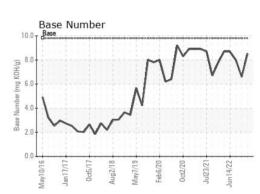
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	13.9	14.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0061882 : 05949898 : 10645857

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

Received

: 13 Sep 2023 Diagnosed : 15 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 044 - Elizabeth City

657 Old US 17 Elizabeth City, NC US 27909 Contact: TOM BAIRD

tom.baird@gflenv.com T: (252)562-2645 F: (252)264-4411

* - 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)