

OIL ANALYSIS REPORT

Sample Rating Trend



EX0200 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

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.

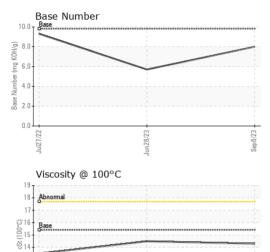
GAL)		Ju	12022	Jun2023 Sep20	23	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092922	GFL0055943	GFL0055904
Sample Date		Client Info		08 Sep 2023	28 Jun 2023	27 Jul 2022
Machine Age	hrs	Client Info		111	111	111
Oil Age	hrs	Client Info		0	111	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	19	18	73
Chromium	ppm	ASTM D5185m	>20	<1	<1	5
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		7	8	83
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	3	11
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	12
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	154	163	141
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	2	2	6
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	665	545	379
Calcium	ppm	ASTM D5185m	1070	1373	1246	1877
Phosphorus	ppm	ASTM D5185m	1150	977	930	1061
Zinc	ppm	ASTM D5185m	1270	1197	1039	1229
Sulfur	ppm	ASTM D5185m	2060	4321	3519	4763
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	15
Sodium	ppm	ASTM D5185m		10	6	△ 63
Potassium	ppm	ASTM D5185m	>20	15	17	▲ 88
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.3	12.6	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	24.3	21.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	22.1	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	5.7	9.3
	0 0					



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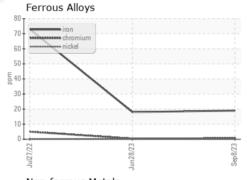
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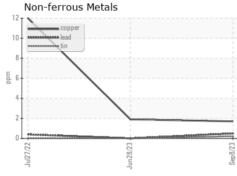


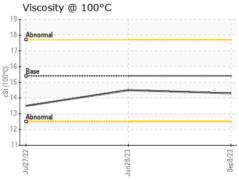
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

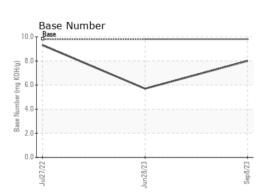
FLUID PROPI	ERITES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.5	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10647011 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0092922 : 05951052

Received Diagnosed

: 14 Sep 2023 : 18 Sep 2023 Diagnostician : Angela Borella GFL Environmental - 641 - Alpena 1241 KING SETTLEMENT RD ALPENA, MI

US 49707 Contact: DYLAN TOLAN

dylan.tolan@gflenv.com T: (989)854-7203

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)