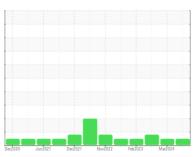


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
828034
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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

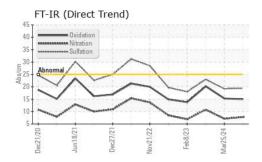
Fluid Condition

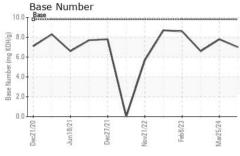
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

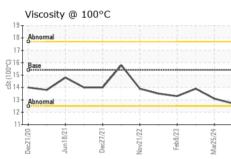
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122690	GFL0110193	GFL0060488
Sample Date		Client Info		28 Jun 2024	25 Mar 2024	16 Aug 2023
Machine Age	hrs	Client Info		15323	14651	13301
Oil Age	hrs	Client Info		672	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	7	11	25
Chromium	ppm	ASTM D5185m	>4	<1	1	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	3
Lead	ppm	ASTM D5185m	>45	0	2	▲ 31
Copper	ppm	ASTM D5185m	>85	0	<1	14
Tin	ppm	ASTM D5185m	>4	<1	0	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	4	4	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	49	54	64
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	866	916	841
Calcium	ppm	ASTM D5185m	1070	1019	1099	1352
Phosphorus	ppm	ASTM D5185m	1150	1006	912	1038
Zinc	ppm	ASTM D5185m	1270	1190	1211	1293
Sulfur	ppm	ASTM D5185m	2060	3331	3477	3280
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	4	8
Sodium	ppm	ASTM D5185m		5	2	4
Potassium	ppm	ASTM D5185m	>20	1	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.1	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	19.2	23.0
FLUID DEGRAE	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	15.3	20.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	7.8	6.6



OIL ANALYSIS REPORT



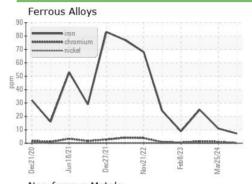


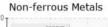


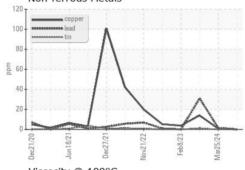
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

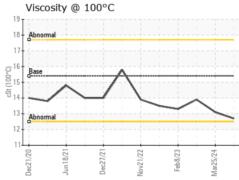
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	13.1	13.9

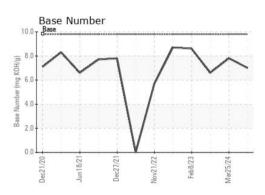
GRAPHS















Certificate 12367

Laboratory Sample No.

Lab Number : 06227241 Unique Number : 11110734

: GFL0122690

Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2024

Tested : 05 Jul 2024 Diagnosed : 05 Jul 2024 - Wes Davis

GFL Environmental - 660 - Lynchburg Hauling 2410 Mayflower Drive

Lynchburg, VA US 24501 Contact: Delbert Beasley

dbeasley@countyrecycling.net T: (434)665-5998

* - 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)