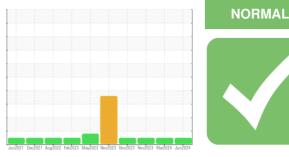


OIL ANALYSIS REPORT

Sample Rating Trend



Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

SAMPLE INFORMATION method

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Machine Id

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

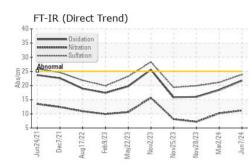
Fluid Condition

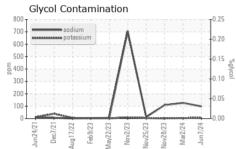
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

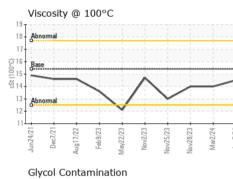
SAMPLE INFOR		methoa	iinii/base	current	nistory i	nistory2
Sample Number		Client Info		GFL0122513	GFL0108980	GFL0101447
Sample Date		Client Info		07 Jun 2024	02 Mar 2024	28 Nov 2023
Machine Age	hrs	Client Info		16330	15818	15180
Oil Age	hrs	Client Info		15180	15180	2600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		<1.0 NEG	<1.0 NEG	<1.0 NEG
		WC Method	>0.2	NEG	NLG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	45	27	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	4	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	1	17
Tin	ppm	ASTM D5185m	>15	<1	0	0
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	6	3	11
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	67	60
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1014	998	927
Calcium	ppm	ASTM D5185m	1070	1188	1088	1130
Phosphorus	ppm	ASTM D5185m	1150	1089	1058	1032
Zinc	ppm	ASTM D5185m	1270	1387	1334	1219
Sulfur	ppm	ASTM D5185m	2060	3326	3065	2839
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	9	11
Sodium	ppm	ASTM D5185m		98	127	109
Potassium	ppm	ASTM D5185m	>20	7	4	2
Glycol	%	*ASTM D2982		NEG	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.2	10.2	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	21.1	19.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	18.4	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.4	7.2	8.4
	0 - 0			-		



OIL ANALYSIS REPORT

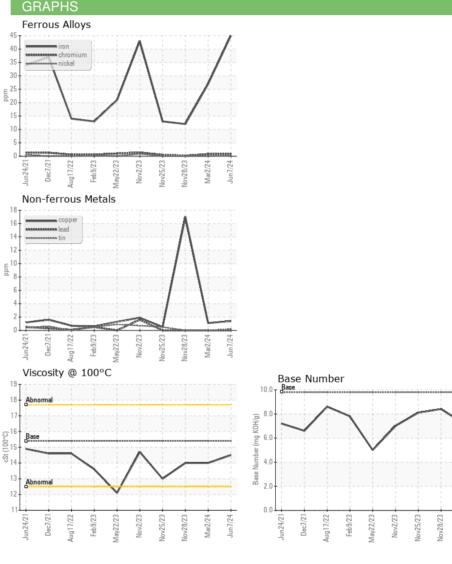








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	limit/base	current	history1	history2
TEODITIOLE		memou	11111/0430	Current	Thistory	matoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.0	14.0
СРАРИС						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 415 - Michigan East Sample No. : GFL0122513 Received : 20 Jun 2024 6200 Elmridge Lab Number : 06215347 Tested : 21 Jun 2024 Sterling Heights, MI US 48313 Unique Number : 11088211 Diagnosed : 21 Jun 2024 - Sean Felton Test Package : FLEET (Additional Tests: Glycol) Contact: Frank Wolak Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. fwolak@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (586)825-9514 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

Report Id: GFL415 [WUSCAR] 06215347 (Generated: 06/23/2024 05:10:08) Rev: 1

Submitted By: Frank Wolak

Jun7/24

Mar2/24

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