

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 825013-1194

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

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.

_TR)		Dec2020	Apr2021 Aug2021	JanŽ022 MayŽ022	Jul2022	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0048050	GFL0035964	GFL0035934
Sample Date		Client Info		13 Jul 2022	18 May 2022	19 Jan 2022
Machine Age	mls	Client Info		108721	108186	104470
Oil Age	mls	Client Info		108721	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	>80	34	38	55
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	5	5	8
Lead	ppm	ASTM D5185m	>30	3	3	8
Copper	ppm	ASTM D5185m	>150	1	1	3
Tin	ppm	ASTM D5185m	>5	<1	<1	1
Antimony	ppm	ASTM D5185m				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	11	7	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	65	79
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1021	1041	1224
Calcium	ppm	ASTM D5185m	1070	1253	1263	1327
Phosphorus	ppm	ASTM D5185m	1150	1109	1090	1223
Zinc	ppm	ASTM D5185m	1270	1330	1342	1481
Sulfur	ppm	ASTM D5185m	2060	3595	2597	2817
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	7	7
Sodium	ppm	ASTM D5185m		2	1	8
Potassium	ppm	ASTM D5185m	>20	2	1	28
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	12.1	11.4	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	22.3	25.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	19.8	22.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.8	9.7	10



Ba

Ab

Jec30/20

Apr28/21

12

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scalar

scalar

*Visual

*Visual

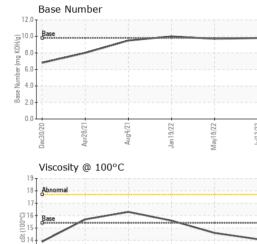
NONE

NONE

VISUAL

White Metal

Yellow Metal



Aug4/21-

Jan 19/22

May18/22



NONE

NONE

NONE

NONE

NONE

NONE

* - 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)

T: (804)489-3066 F:

Submitted By: TECHNICIAN ACCOUNT