

OIL ANALYSIS REPORT

Sample Rating Trend



HINO 10698

Component **Diesel Engine**

Fluid

PETRO CANADA DURON SHP 15W40 (4 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.

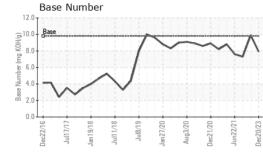
Fluid Condition

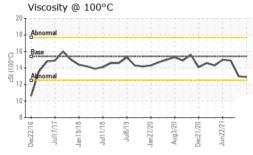
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

L)		2016 Jul/201	000000000			
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086249	GFL0089595	GFL0057622
Sample Date		Client Info		20 Dec 2023	24 Aug 2023	26 Jan 2023
Machine Age	hrs	Client Info		11681	0	129310
Oil Age	hrs	Client Info		11681	0	163649
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	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	>100	8	35	57
Chromium	ppm	ASTM D5185m	>20	0	1	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	7	4
_ead	ppm	ASTM D5185m	>40	2	0	31
Copper	ppm	ASTM D5185m	>330	1	3	4
Гin	ppm	ASTM D5185m	>15	0	<1	1
Antimony	ppm	ASTM D5185m				
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	17	46	11
Barium	ppm	ASTM D5185m	0	0	6	0
Nolybdenum	ppm	ASTM D5185m	60	58	44	82
Manganese	ppm	ASTM D5185m		<1	5	1
Magnesium	ppm	ASTM D5185m	1010	721	546	811
Calcium	ppm	ASTM D5185m	1070	1223	1764	1982
Phosphorus	ppm	ASTM D5185m	1150	966	770	1256
Zinc	ppm	ASTM D5185m	1270	1143	972	1617
Sulfur	ppm	ASTM D5185m	2060	2803	2918	3776
CONTAMINAN	NTS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	4	19	17
Sodium	ppm	ASTM D5185m		1	4	5
Potassium	ppm	ASTM D5185m	>20	0	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.5	A 3.1
Nitration	Abs/cm	*ASTM D7624	>20	9.4	7.7	20.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	22.7	33.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	20.6	32.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	9.9	7.3
					0 J J J	

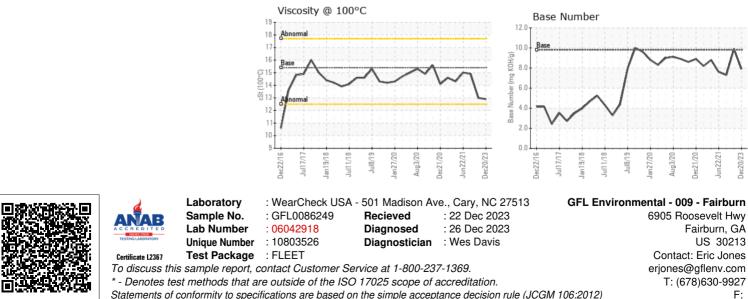


OIL ANALYSIS REPORT





White Metal		method	limit/base	current	history1	history2
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
i enow wietai	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 PROPER	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.0	14.9
0 - chromium						
Juli 7/16	02/L2 using the second se	Aug320 Dec21220 Lac2221	Dec20/23			



50

Dec22/1

Jan 19/18

Submitted By: Eric Jones Page 2 of 2