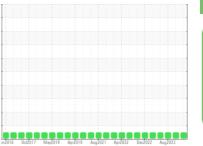


OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base

NORMAL





Machine Id 4514 Component

Front Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (37 LTR)

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.

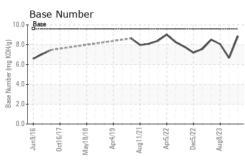
Fluid Condition

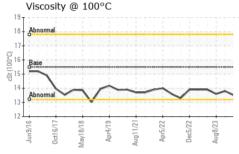
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

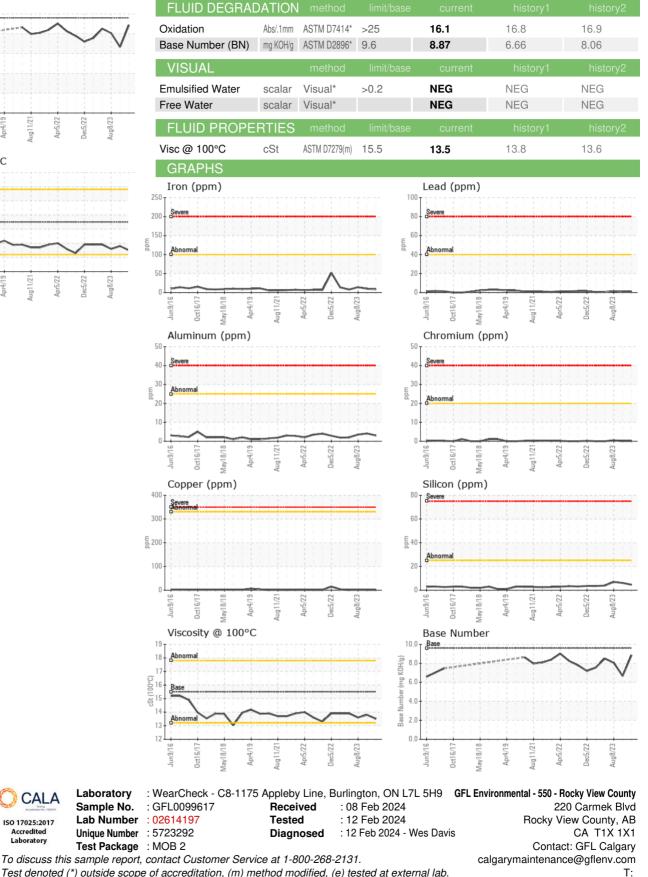
SAMIFLE INFUN		methou	iiiiii/base	current	nistory i	TIIStOLYZ
Sample Number		Client Info		GFL0099617	GFL0091585	GFL0084321
Sample Date		Client Info		31 Jan 2024	06 Nov 2023	08 Aug 2023
Machine Age	kms	Client Info		141350	0	22379
Oil Age	kms	Client Info		0	123691	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
-			11 11 11			
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<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 D5185(m)	>100	8	10	14
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	3	4	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	2
Copper	ppm	ASTM D5185(m)	>330	1	1	1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	56	56	59
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	920	911	983
Calcium	ppm	ASTM D5185(m)	1070	1067	1075	1076
Phosphorus	ppm	ASTM D5185(m)	1150	986	938	1035
Zinc	ppm	ASTM D5185(m)	1270	1162	1137	1198
Sulfur	ppm	ASTM D5185(m)	2060	2556	2302	2415
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	6	7
Sodium	ppm	ASTM D5185(m)		4	3	6
Potassium	ppm	ASTM D5185(m)	>20	4	5	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0.2	0.2
Nitration	Abs/cm	ASTM D7624*		8.0	8.7	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	20.2	21.1



OIL ANALYSIS REPORT







Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

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Laboratory

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