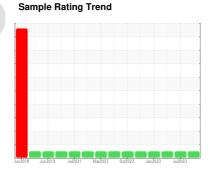


OIL ANALYSIS REPORT



Machine Id 201064 Component **Diesel Engine**

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

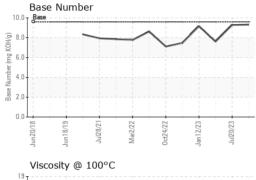
Fluid Condition

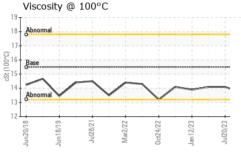
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084301	GFL0084288	GFL0077611
Sample Date		Client Info		16 Jan 2024	20 Jul 2023	24 May 2023
Machine Age	hrs	Client Info		9993	207140	202049
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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 D5185(m)	>80	12	7	20
Chromium	ppm	ASTM D5185(m)	>5	<1	, <1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	/L	0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	. ,	>30	3	2	6
Lead		ASTM D5185(m)	>30	0	0	0
Copper	ppm	. ,	>150	<1	<1	<1
Tin		ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
	ppm	. ,		0	0	0
Beryllium Cadmium	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	0
ADDITIVES	ррт	method	limit/base	current	history1	history2
					•	
Boron	ppm	ASTM D5185(m)	1	3	2	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	55	56
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	906	914	893
Calcium	ppm	ASTM D5185(m)		1023	989	1094
Phosphorus	ppm	ASTM D5185(m)	1150	991	1025	1039
Zinc	ppm	ASTM D5185(m)		1162	1139	1128
Sulfur Lithium	ppm	ASTM D5185(m)	2060	2690	2499	2510
	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	7	3	5
Sodium	ppm	ASTM D5185(m)		<1	1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1	0.7	1.7
Nitration	Abs/cm	ASTM D7624*	>20	8.5	7.0	10.6



OIL ANALYSIS REPORT

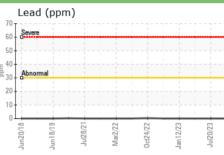


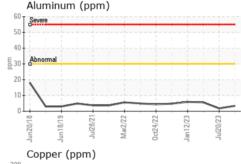


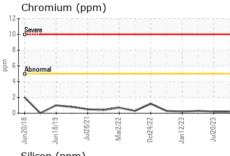
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.6	15.1	18.1
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	9.32	9.28	7.61
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.7	14.1	14.1

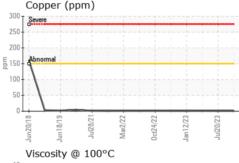
	(ppm)					
250 T]							
200-							
150							
Sever	e						
	rmal						
50							
		-					
0.	19	/21-	22 -	22 -	23	23	
Jun20/18	Jun18/19	Jul28/21	Mar2/2	Oct24/2	Jan 12/23	Jul20/2	
	,	,		0	-5	7	
	minum	(ppm))				
60							

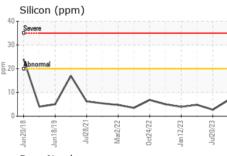
GRAPHS

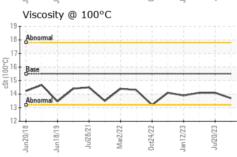


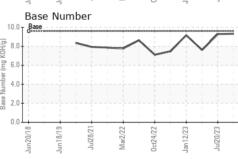














CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: 02612329

: GFL0084301 : 5721424

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Recieved : 31 Jan 2024 : 01 Feb 2024 Diagnosed

Diagnostician : Wes Davis

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1**

Contact: GFL Calgary calgarymaintenance@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

F: (403)369-6163

T: