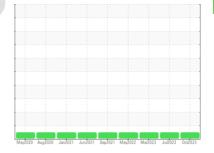


OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base







Component Diesel Engine

PETRO CANADA DURON HP 15W40 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Machine Id

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	iimii/base	current	nistory i	riistory2
Sample Number		Client Info		PCA0082817	PCA0069590	PCA0069573
Sample Date		Client Info		18 Oct 2023	05 Jul 2023	07 Mar 2023
Machine Age	hrs	Client Info		0	6567	5956
Oil Age	hrs	Client Info		0	255	1397
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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	>100	18	19	38
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	15	10	22
Lead	ppm	ASTM D5185m	>40	1	<1	5
Copper	ppm	ASTM D5185m	>330	18	43	99
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	3	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		80	67	65
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1167	1079	989
Calcium	ppm	ASTM D5185m		1316	1204	1108
Phosphorus	ppm	ASTM D5185m		1345	1131	944
Zinc	ppm	ASTM D5185m		1535	1404	1280
Sulfur	ppm	ASTM D5185m		4207	3540	2639
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	11
Sodium	ppm	ASTM D5185m		0	2	1
Potassium	ppm	ASTM D5185m	>20	39	15	40
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.4	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	21.4	24.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	18.4	23.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.8	6.1



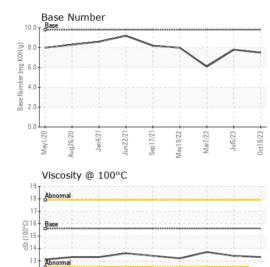
12

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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		
Visc @ 100°C	cSt	ASTM D445	15.6	13.3	13.4	13.7		
GRAPHS								
Ferrous Alloys								
iron A								

