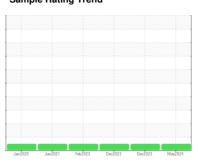


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

International 4401

Diesel Engine

PETRO CANADA DURON SHP 10W30 (18 QTS)

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

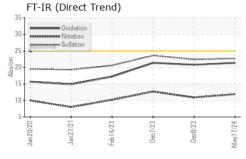
Fluid Condition

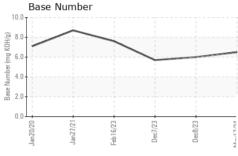
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

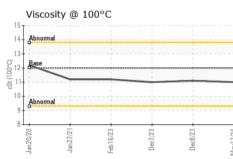
QIS)		Jan2020	Jan 2021 Feb 2023	Dec2023 Dec2023	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112484	PCA0091755	PCA0091696
Sample Date		Client Info		17 May 2024	08 Dec 2023	07 Dec 2023
Machine Age	mls	Client Info		80430	69433	58581
Oil Age	mls	Client Info		10997	22148	11296
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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 D5185m	>130	34	29	39
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	3
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>125	3	2	3
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm		2	2	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	50	64	61	61
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	950	993	932	910
Calcium	ppm	ASTM D5185m		1177	1029	1006
Phosphorus	ppm	ASTM D5185m	995	1061	809	774
Zinc	ppm	ASTM D5185m	1180	1322	1173	1168
Sulfur	ppm	ASTM D5185m	2600	3511	2725	2692
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	5
Sodium	ppm	ASTM D5185m		5	0	0
Potassium	ppm	ASTM D5185m	>20	14	3	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.7	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	11.9	10.9	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.4	23.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	20.8	21.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	6.0	5.7



OIL ANALYSIS REPORT



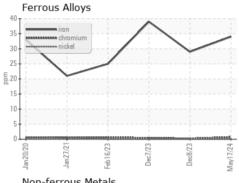


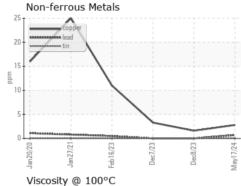


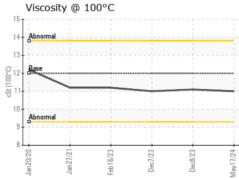
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

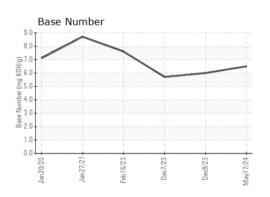
		method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.1	11.0

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: PCA0112484 Lab Number : 06215311 Unique Number : 11088175

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 21 Jun 2024 Diagnosed

: 21 Jun 2024 - Wes Davis

ICSB370 - Alton 4525 North Alby Road Godfrey, IL US 62035

Contact: Chad Ingold c.ingold@illinois-central.com T: (618)466-5400

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)