OIL ANALYSIS REPORT

Sample Rating Trend

Mar2021 Aug2021 Jan2022 Jun2022 Nov2022 Feb2024
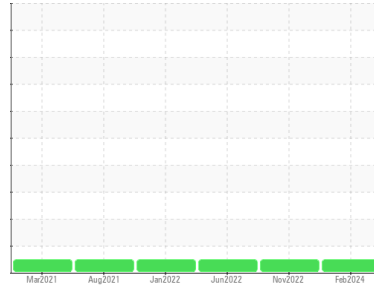
NORMAL ✓

Machine Id
2026825
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		**PCA0111481**	PCA0085160	PCA0075975
Sample Date	Client Info		**22 Feb 2024**	28 Nov 2022	29 Jun 2022
Machine Age	mls	Client Info	**318534**	206417	167682
Oil Age	mls	Client Info	**39009**	40000	0
Oil Changed		Client Info	**Changed**	Changed	N/A
Sample Status			**NORMAL**	NORMAL	NORMAL

CONTAMINATION	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 METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**34**	26	21
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>4	**2**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m	>3	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>20	**4**	2	4
Lead	ppm	ASTM D5185m	>40	**<1**	2	2
Copper	ppm	ASTM D5185m	>330	**9**	12	26
Tin	ppm	ASTM D5185m	>15	**<1**	1	1
Antimony	ppm	ASTM D5185m		**---**	---	---
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	2	**0**	1	2
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	50	**59**	57	63
Manganese	ppm	ASTM D5185m	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	950	**885**	888	892
Calcium	ppm	ASTM D5185m	1050	**1045**	1162	1195
Phosphorus	ppm	ASTM D5185m	995	**952**	846	941
Zinc	ppm	ASTM D5185m	1180	**1126**	1156	1207
Sulfur	ppm	ASTM D5185m	2600	**2734**	3013	3311

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**5**	4	4
Sodium	ppm	ASTM D5185m		**3**	1	<1
Potassium	ppm	ASTM D5185m	>20	**2**	4	8

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.4**	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	**9.3**	11.1	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.2**	23.7	21.6

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.3**	19.1	16.9
Base Number (BN)	mg KOH/g	ASTM D2896		**6.6**	6.2	7.5

Report Id: PERLEWNC [WUSCAR] 06099834 (Generated: 02/27/2024 10:20:31) Rev: 1   Contact/Location: NELSON WALLACE - PERLEWNC

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Base Number

Viscosity @ 100°C
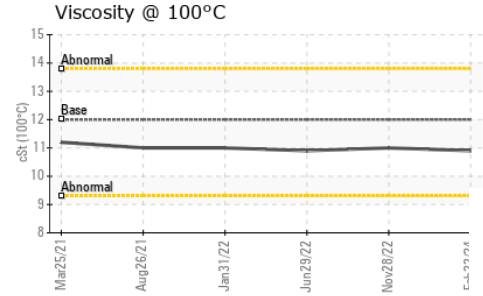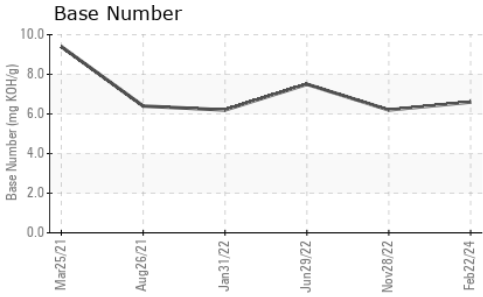
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	**10.9**	11.0	10.9

GRAPHS
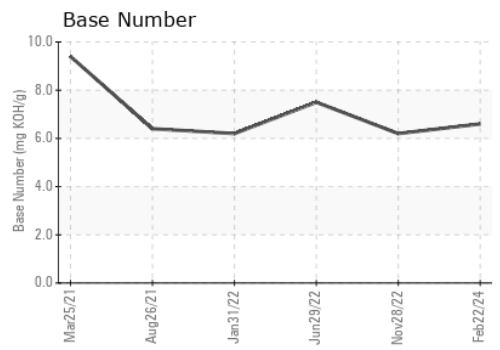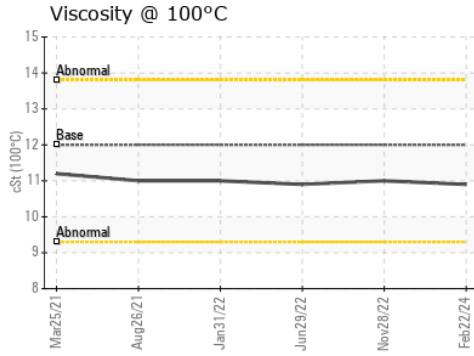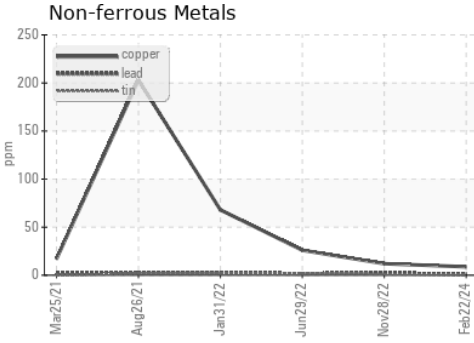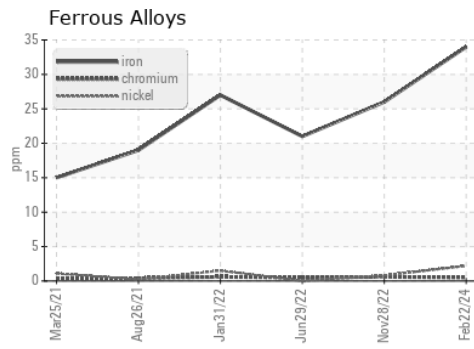
Ferrous Alloys

Non-ferrous Metals

Viscosity @ 100°C

Base Number

ANAB ACCREDITED TESTING LABORATORY
Certificate L2367

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)