

# **OIL ANALYSIS REPORT**



#### Machine Id 233147 Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- QTS)

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

### Fluid Condition

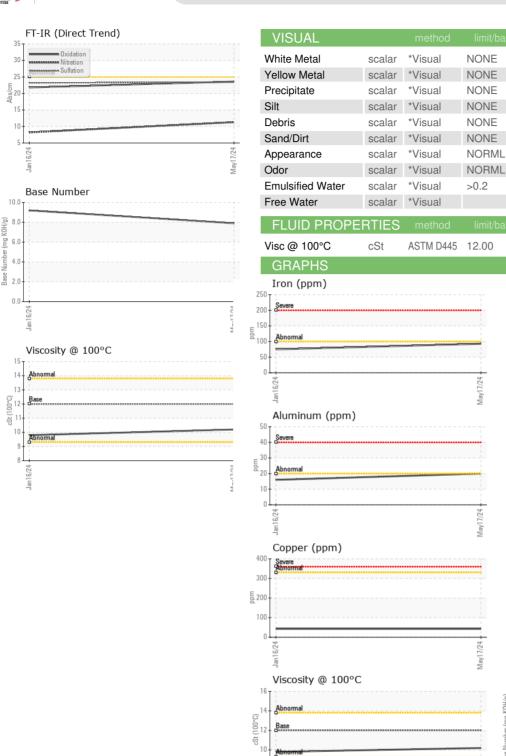
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

QTS)			Jan2024	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0126945	PCA0115206	
Sample Date		Client Info		17 May 2024	16 Jan 2024	
Machine Age	mls	Client Info		27108	12671	
Oil Age	mls	Client Info		0	0	
Oil Changed	IIIIO	Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT		method	limit/base	current	history1	history2
Fuel		WC Method	>5		<1.0	
Water		WC Method		<1.0 NEG	<1.0 NEG	
		WC Method	>0.2	NEG	NEG	
Glycol				NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	93	75	
Chromium	ppm	ASTM D5185m		2	1	
Nickel	ppm	ASTM D5185m	>4	2	1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	20	16	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	43	43	
Tin	ppm	ASTM D5185m	>15	5	4	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	31	48	
Barium	ppm	ASTM D5185m	0	0	4	
Molybdenum	ppm	ASTM D5185m	50	44	43	
Manganese	ppm	ASTM D5185m	0	12	11	
Magnesium	ppm	ASTM D5185m	950	533	518	
Calcium	ppm	ASTM D5185m	1050	1621	1730	
Phosphorus	ppm	ASTM D5185m	995	729	747	
Zinc	ppm	ASTM D5185m	1180	918	933	
Sulfur	ppm	ASTM D5185m	2600	2338	2744	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	42	13	
Sodium	ppm	ASTM D5185m		4	<1	
Potassium	ppm	ASTM D5185m	>20	43	38	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	11.3	8.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	23.2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.6	21.8	
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	9.2	

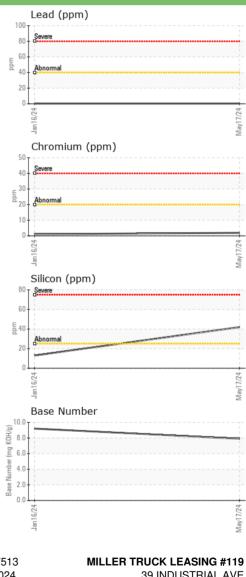


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Jan16/24



NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

10.2

NONE

NONE

NONE

NONE

NONE

NONE

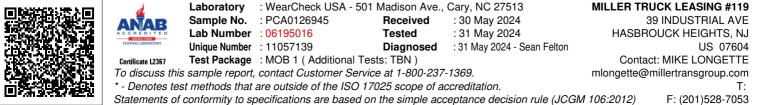
NORML

NORML

NEG

NEG

9.8



May17/24.

Report Id: MILRUT [WUSCAR] 06195016 (Generated: 05/31/2024 14:04:10) Rev: 1

Contact/Location: MIKE LONGETTE - MILRUT