

OIL ANALYSIS REPORT



WEAR



Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- G

DIAGNOSIS

Machine Id 2227054

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Valve wear is indicated. All other component wear rates are normal.

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. No other contaminants were detected in the oil.

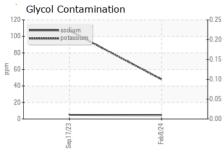
Fluid Condition

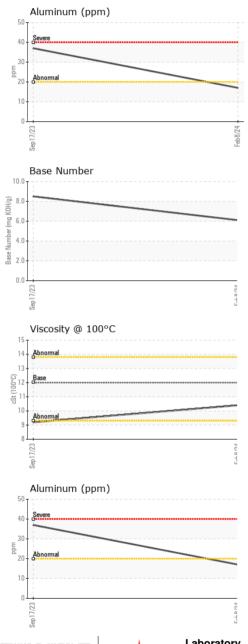
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

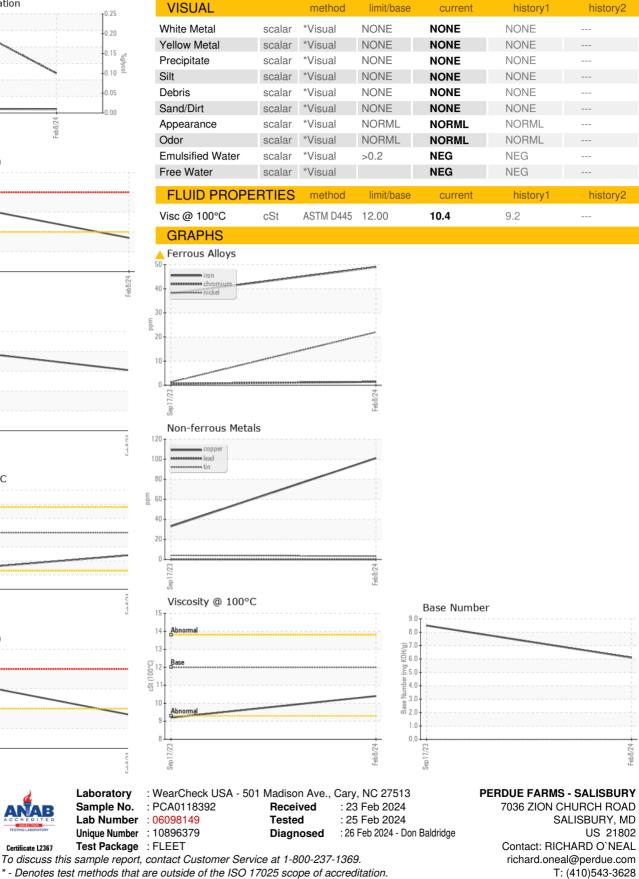
TS)			Sep2023	Feb2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118392	PCA0088741	
Sample Date		Client Info		08 Feb 2024	17 Sep 2023	
lachine Age	mls	Client Info		20000	20000	
Dil Age	mls	Client Info		20000	20000	
Dil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	0.2	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	49	38	
Chromium	ppm	ASTM D5185m	>20	1	<1	
lickel	ppm	ASTM D5185m	>4	<u> </u>	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	1	17	
Aluminum	ppm	ASTM D5185m	>20	17	37	
ead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	101	33	
în	ppm	ASTM D5185m	>15	3	4	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	11	169	
Barium	ppm	ASTM D5185m	0	0	0	
lolybdenum	ppm	ASTM D5185m	50	68	115	
Manganese	ppm	ASTM D5185m	0	2	4	
lagnesium	ppm	ASTM D5185m	950	884	676	
Calcium	ppm	ASTM D5185m	1050	1179	1488	
Phosphorus	ppm	ASTM D5185m	995	953	685	
Zinc	ppm	ASTM D5185m	1180	1182	839	
Sulfur	ppm	ASTM D5185m	2600	2397	2307	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	5 6	
Sodium	ppm	ASTM D5185m		4	5	
Potassium	ppm	ASTM D5185m	>20	48	107	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	
Vitration	Abs/cm	*ASTM D7624	>20	10.0	9.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	23.7	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	18.4	21.2	
Base Number (BN)	mg KOH/g	ASTM D2896		6.1	8.5	



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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