

OIL ANALYSIS REPORT

Sample Rating Trend



KENWORTH 30

Diesel Engine

Fluid PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All 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. There is no indication of any contamination in the oil.

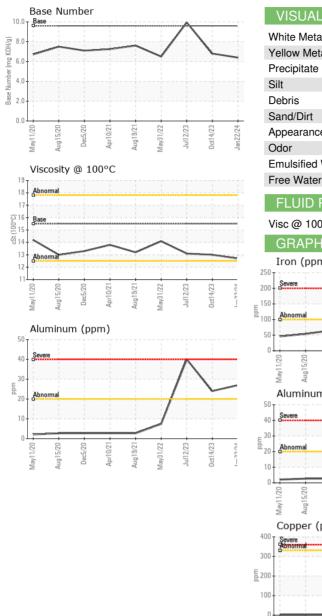
Fluid Condition

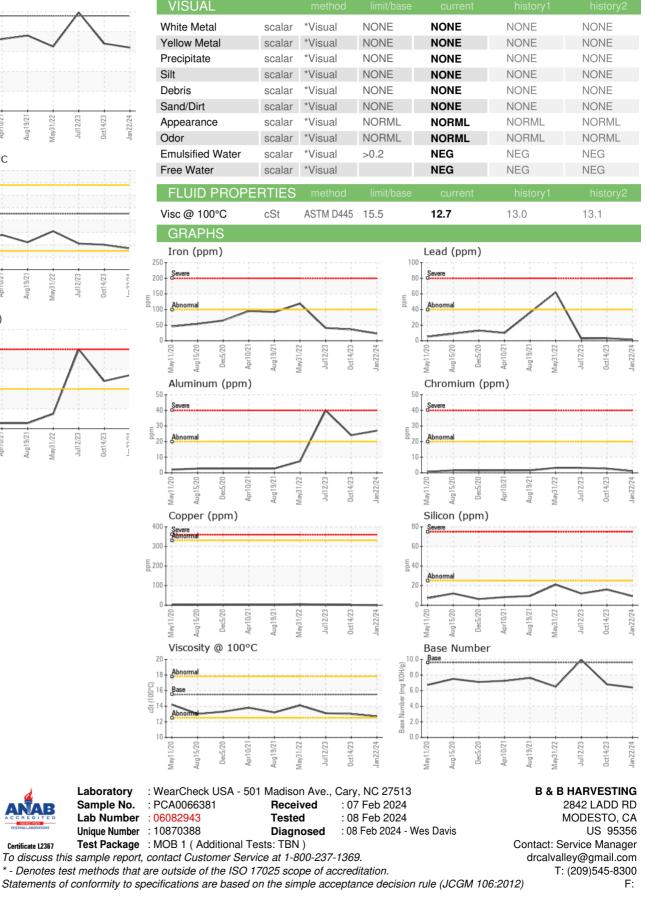
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0066381	PCA0105050	PCA0054217
Sample Date		Client Info		22 Jan 2024	14 Oct 2023	12 Jul 2023
Machine Age	mls	Client Info		89680	74161	53461
Oil Age	mls	Client Info		20000	20000	20000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	20.L	NEG	NEG	NEG
-	~			-		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	36	41
Chromium	ppm	ASTM D5185m	>20	1	3	3
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	27	24	40
Lead	ppm	ASTM D5185m	>40	1	3	3
Copper	ppm	ASTM D5185m	>330	0	1	2
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	1	3	7	4
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	60	59
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	894	989	989
Calcium	ppm	ASTM D5185m	1070	897	1096	1180
Phosphorus	ppm	ASTM D5185m	1150	957	1067	1047
Zinc	ppm	ASTM D5185m	1270	1176	1297	1344
Sulfur	ppm	ASTM D5185m	2060	2734	2922	3650
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	16	12
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	67	68	117
INFRA-RED		method	limit/base	current	history1	history2
		*ASTM D7844	>3	0.3	0.4	0.3
Soot %	%			0.0	0.7	0.0
Soot %	% Abs/cm		>20	83	87	85
Nitration	Abs/cm	*ASTM D7624		8.3 22.4	8.7 22.0	8.5 21.9
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	22.4	22.0	21.9
Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415				
Nitration Sulfation FLUID DEGRAD Oxidation	Abs/cm Abs/.1mm DATION Abs/.1mm	*ASTM D7624 *ASTM D7415 method *ASTM D7414	>30 limit/base >25	22.4	22.0 history1 19.2	21.9 history2 18.8
Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>30 limit/base >25	22.4 current	22.0 history1	21.9 history2



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Certificate L2367

Laboratory

Sample No.

Lab Number