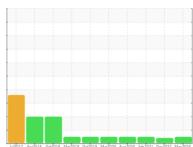


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

KENWORTH T-370 8059 (S/N 2NKHHM7X1GM127597)

Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

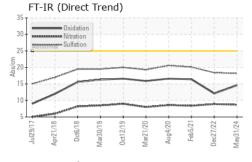
Fluid Condition

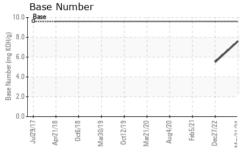
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

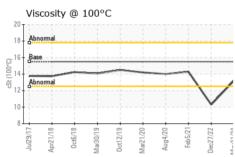
SAMPLE INFORM Sample Number Sample Date Machine Age Oil Age						
Sample Date Machine Age	ATION	method	limit/base	current	history1	history2
Machine Age		Client Info		WC0888092	WC0751111	WC0514525
		Client Info		31 May 2024	27 Dec 2022	05 Feb 2021
Oil Age	mls	Client Info		64160	56835	50190
	mls	Client Info		7325	6645	5889
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	1.7	<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	37	58	18
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	23	36	14
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	1	2	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	8	26	3
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	95	249	58
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	949	526	925
Calcium	ppm	ASTM D5185m	1070	1178	1424	1062
Phosphorus	ppm	ASTM D5185m	1150	1016	671	1030
	ppm	ASTM D5185m	1270	1262	884	1251
Zinc	ppm	ASTM D5185m	0000			
Zinc Sulfur			2060	3462	2405	2583
Sulfur CONTAMINANTS		method	limit/base	3462 current	history1	history2
Sulfur	ppm				history1	history2 <1
Sulfur CONTAMINANTS		method	limit/base	current	history1	history2
Sulfur CONTAMINANTS Silicon	ppm	method ASTM D5185m	limit/base	current 5	history1	history2 <1
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 5 <1	history1 11 2	history2 <1 2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 5 <1 43	history1 11 2 54	history2 <1 2 37
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base	current 5 <1 43 current	history1 11 2 54 history1	history2 <1 2 37 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >3	current 5 <1 43 current 0.4	history1 11 2 54 history1 0.6	history2 <1 2 37 history2 0.5
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >25 >20 limit/base >3 >20	current 5 <1 43 current 0.4 8.7	history1 11 2 54 history1 0.6 8.9	history2 <1 2 37 history2 0.5 8.4
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25	current 5 <1 43 current 0.4 8.7 18.2	history1 11 2 54 history1 0.6 8.9 18.4	history2 <1 2 37 history2 0.5 8.4 20.1



OIL ANALYSIS REPORT







VISUAL		method				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

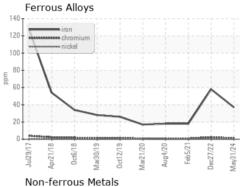
13.2

10.3

14.3

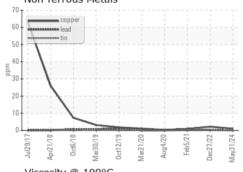
Visc @ 100°C	
GRAPHS	

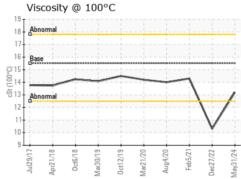
FLUID PROPERTIES

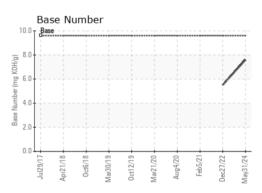


cSt

ASTM D445 15.5











Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0888092 Lab Number : 06202418 Unique Number : 11069879

Received **Tested**

: 07 Jun 2024 : 11 Jun 2024 Diagnosed

: 11 Jun 2024 - Wes Davis

Test Package : CONST (Additional Tests: TBN) 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)

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