

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id KENWORTH 30 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (AI) 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.

15W40 (GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105050	PCA0054217	PCA0053945
Sample Date		Client Info		14 Oct 2023	12 Jul 2023	31 May 2022
Machine Age	mls	Client Info		74161	53461	547738
Oil Age	mls	Client Info		20000	20000	20000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	36	41	1 19
Chromium	ppm	ASTM D5185m	>20	3	3	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	24	40	7
Lead	ppm	ASTM D5185m	>40	3	3	<mark>▲</mark> 62
Copper	ppm	ASTM D5185m	>330	1	2	6
Tin	ppm	ASTM D5185m	>15	<1	<1	2
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	1	7	4	14
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	59	61
Manganese	ppm	ASTM D5185m	1	<1	1	1
Magnesium	ppm	ASTM D5185m	1010	989	989	864
Calcium	ppm	ASTM D5185m	1070	1096	1180	1341
Phosphorus	ppm	ASTM D5185m	1150	1067	1047	1056
Zinc	ppm	ASTM D5185m	1270	1297	1344	1317
Sulfur	ppm	ASTM D5185m	2060	2922	3650	3237
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	12	21
Sodium	ppm	ASTM D5185m		2	2	4
Potassium	ppm	ASTM D5185m	>20	68	117	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	1.6
Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.5	15.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.9	33.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	18.8	30.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	6.8	9.94	6.5



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VISUAL





Certificate L2367