

# **OIL ANALYSIS REPORT**

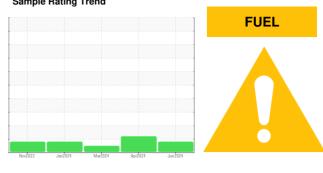
Sample Rating Trend

limit/base



### Machine Id CATERPILLAR 775F HAUL TRUCK 6151 (S/N DLS00524) Diesel Engine TULCO LUBSOIL CK-4 15W40 (--- GAL)

SAMPLE INFORMATION method



history1

current

history2

## DIAGNOSIS

Recommendation

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

#### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

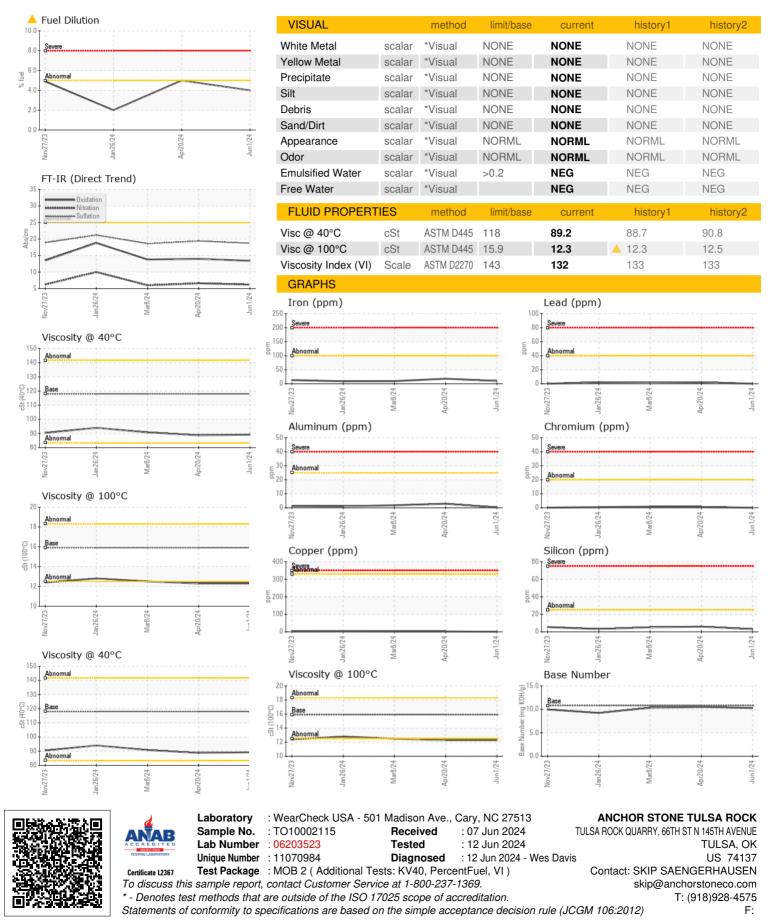
#### Fluid Condition

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

Sample Number		Client Info		TO10002115	TO10003022	TO10003136
Sample Date		Client Info		01 Jun 2024	20 Apr 2024	08 Mar 2024
Machine Age	hrs	Client Info		1911	1657	1351
Oil Age	hrs	Client Info		254	584	278
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				MARGINAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
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	10	18	9
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<1	3	2
Lead	ppm	ASTM D5185m	>40	0	2	1
Copper	ppm	ASTM D5185m	>330	<1	2	2
Tin	ppm	ASTM D5185m	>15	0	2	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	6	7
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m	65	63	63	60
Manganese	ppm	ASTM D5185m		0	0	1
Magnesium	ppm	ASTM D5185m	1060	1093	1000	908
Calcium	ppm	ASTM D5185m	1140	1265	1171	1090
Phosphorus	ppm	ASTM D5185m	1170	1224	1203	1021
Zinc	ppm	ASTM D5185m	1230	1436	1323	1211
Sulfur	ppm	ASTM D5185m	3130	4562	3772	3640
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	6	5
Sodium	ppm	ASTM D5185m		1	2	<1
Potassium	ppm	ASTM D5185m	>20	0	3	2
Fuel	%	ASTM D3524	>5	<u> </u>	▲ 5.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.6	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.4	18.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	14.0	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.8	10.28	10.51	10.34
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Submitted By: SKIP SAENGERHAUSEN

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