

OIL ANALYSIS REPORT

Sample Rating Trend



INTERNATIONAL 31

Diesel Engine

Fluid CONOCO PHILLIPS GUARDOL ECT 15W40 (--- Oz)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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		method	limit/base	current	history1	history2	
			- mm/base				
Sample Number		Client Info		PCA0083466	PCA0083473	PCA0066170	
Sample Date		Client Info		07 Jan 2024	22 Mar 2023	15 Mar 2022	
Machine Age	mls	Client Info		1014894	10973	6000	
Oil Age	mls	Client Info		10000	10973	6000	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2	
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	34	35	54	
Chromium	ppm	ASTM D5185m	>20	3	2	2	
Nickel	ppm	ASTM D5185m	>4	<1	<1	0	
Titanium	ppm	ASTM D5185m		16	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	<1	
Aluminum	ppm	ASTM D5185m	>20	1	3	1	
Lead	ppm	ASTM D5185m	>40	4	1	2	
Copper	ppm	ASTM D5185m	>330	51	468	9	
Tin	ppm	ASTM D5185m	>15	3	2	1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	85	18	2	4	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		50	63	63	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	350	867	1069	1105	
Calcium	ppm	ASTM D5185m	1800	1126	1150	1211	
Phosphorus	ppm	ASTM D5185m	1000	926	1079	1168	
Zinc	ppm	ASTM D5185m	1100	1186	1387	1320	
Sulfur	ppm	ASTM D5185m	3500	3169	3632	3005	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	12	3	
Sodium	ppm	ASTM D5185m		0	2	2	
Potassium	ppm	ASTM D5185m	>20	2	<1	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.1	8.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.8	21.3	
FLUID DEGRAD)ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	16.8	17.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	6.4	8.7	9.7	
2:01:46) Rev: 1	0 - 0			Contact/Location: LOBEN JACK - OIL FLD			

Contact/Location: LOREN JACK - OILELD



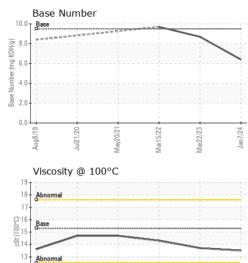
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Aug8/19.

Jul21/20

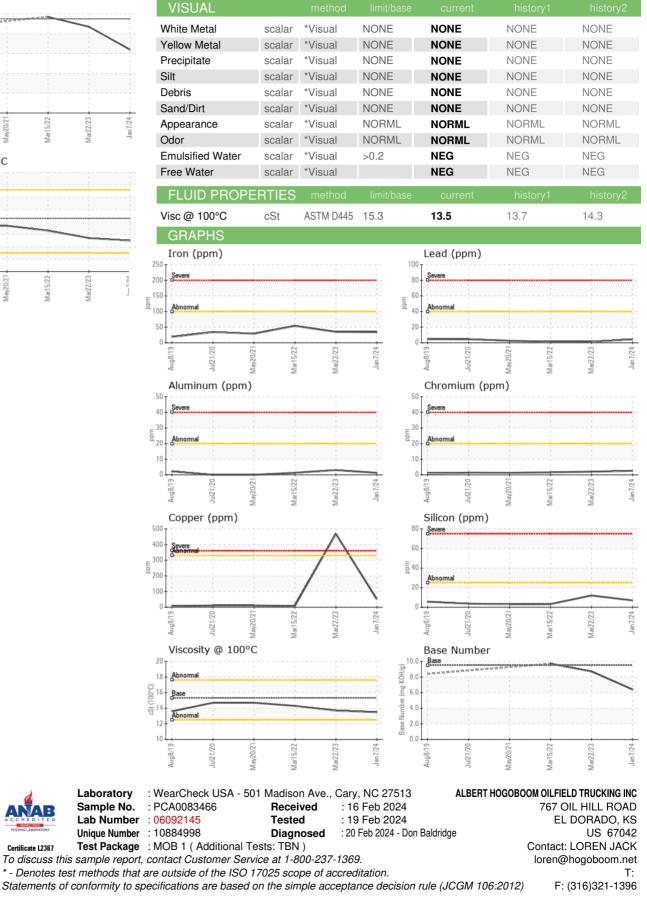
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OIL ANALYSIS REPORT



Mar15/22

Mar22/23



Certificate L2367

Laboratory

Contact/Location: LOREN JACK - OILELD