

OIL ANALYSIS REPORT

Area HOTLINE/120 MILL Machine Id 120 MAIN DRIVE PINION 1415-014-1190

Gearbox

Fluid CITGO EP COMPOUND ISO 800 (5000 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

.)		Sep2022 Jar	12023 Mar2023 Jun202	23 Nov2023 Dec2023 Mar20	24 Jun2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004444	KFS0004858	KFS0002560
Sample Date		Client Info		21 Jun 2024	02 Apr 2024	22 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	3	34	30
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<1	3	3
Lead	ppm	ASTM D5185m	>100	2	15	14
Copper	ppm	ASTM D5185m	>200	0	<1	2
Tin	ppm	ASTM D5185m	>25	0	1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	<1
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	4	2
Calcium	ppm	ASTM D5185m		7	17	17
Phosphorus	ppm	ASTM D5185m		117	144	141
Zinc	ppm	ASTM D5185m		0	5	15
Sulfur	ppm	ASTM D5185m		6998	6797	5725
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	1	3
Sodium	ppm	ASTM D5185m		<1	6	5
Potassium	ppm	ASTM D5185m	>20	1	3	2
Water	%	ASTM D6304	>0.2	0.205	▲ 0.209	1 .08
ppm Water	ppm	ASTM D6304	>2000	A 2050	2 090	▲ 10800
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		9630	2 0409
Particles >6µm		ASTM D7647	>5000		5246	1 1118
Particles >14µm		ASTM D7647	>640		893	1 892
Particles >21µm		ASTM D7647	>160		0301	6 37
Particles >38µm		ASTM D7647	>40		46	9 8
Particles >71µm		ASTM D7647	>10		5	10
Oil Cleanliness		ISO 4406 (c)	>21/19/16		20/20/17	▲ 22/21/18
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.44	0.52

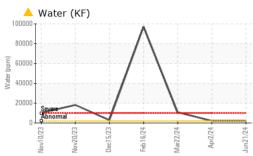
Sample Rating Trend

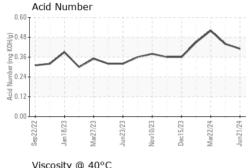
WATER

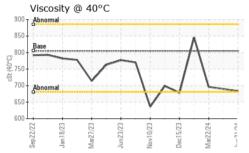
Submitted By: COLD MILL - Josh Edwards Page 1 of 2



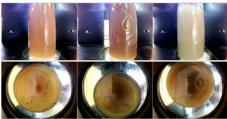
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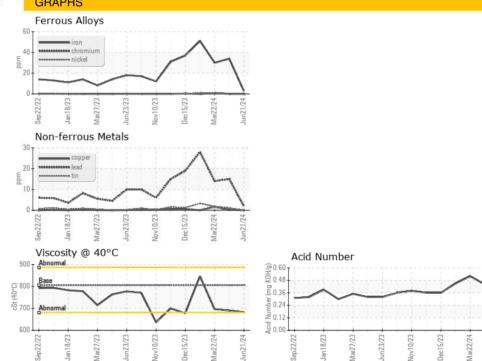


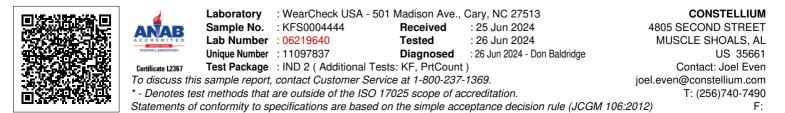
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	- HAZY	MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	805	683	690	696
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						



Bottom







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Page 2 of 2

un21/24