

# **OIL ANALYSIS REPORT**

## Ohio Valley Machine Id [Ohio Valley] Oil - Port Reduction Gear Component

Port Reduction Gear

GEAR OIL SAE 85W140 (180 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Dillinger )

#### Wear

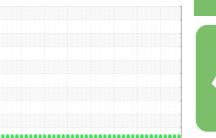
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

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





NORMAL

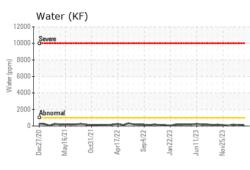
### z2020 May2021 Oct2021 Apr2022 Seo2022 Jan2023 Jun2023 Nov2023

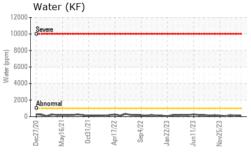
Sample Rating Trend

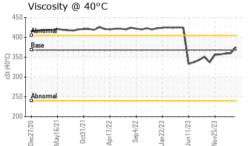
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0845941	WC0845994	WC0845949
Sample Date		Client Info		16 Mar 2024	16 Feb 2024	22 Jan 2024
Machine Age	hrs	Client Info		25591	25249	24920
Oil Age	hrs	Client Info		3803	3462	3147
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	46	27	26
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	3	4
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>50	4	3	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 400	392	history1 230	history2 228
	ppm ppm					
Boron		ASTM D5185m	400	392	230	228
Boron Barium	ppm	ASTM D5185m ASTM D5185m	400 200	392 0	230 0	228 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	400 200	392 0 0	230 0 <1	228 0 0
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12	392 0 0 0	230 0 <1 <1	228 0 0 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12	392 0 0 0 3	230 0 <1 <1 10	228 0 0 <1 7
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12 12 150	392 0 0 0 3 43	230 0 <1 <1 10 39	228 0 0 <1 7 29
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12 12 150 1650	392 0 0 3 43 1464	230 0 <1 <1 10 39 980	228 0 0 <1 7 29 908
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12 12 150 1650 125	392 0 0 3 43 1464 11	230 0 <1 <1 10 39 980 12	228 0 0 <1 7 29 908 10
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12 12 150 1650 125 22500	392 0 0 3 43 1464 11 27637	230 0 <1 <1 10 39 980 12 17534	228 0 0 <1 7 29 908 10 17050
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12 150 1650 125 22500 limit/base	392 0 0 3 43 1464 11 27637 current	230 0 <1 (1) 10 39 980 12 17534 history1	228 0 0 <1 7 29 908 10 17050 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b>	400 200 12 12 150 1650 125 22500 limit/base	392 0 0 3 43 1464 11 27637 <u>current</u> 13	230 0 <1 <1 10 39 980 12 17534 history1 4	228 0 0 <1 7 29 908 10 17050 history2 5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	400 200 12 12 12 150 1650 125 22500 <b>limit/base</b> >50	392 0 0 3 43 1464 11 27637 current 13 4	230 0 <1 <1 10 39 980 12 17534 history1 4 2	228 0 0 <1 7 29 908 10 17050 history2 5 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	400 200 12 12 12 150 1650 125 22500 <b>limit/base</b> >50	392 0 0 3 43 1464 11 27637 <u>current</u> 13 4 8	230 0 <1 (1 10 39 980 12 17534 <b>history1</b> 4 2 3	228 0 0 <1 7 29 908 10 17050 history2 5 3 5 5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	400 200 12 12 12 150 1650 125 22500 <b>limit/base</b> >50 >20 >0.1	392 0 0 3 43 1464 11 27637 <u>current</u> 13 4 8 0.013	230 0 <1 10 39 980 12 17534 history1 4 2 3 0.008	228 0 0 <1 7 29 908 10 17050 history2 5 3 5 5 0.016



# **OIL ANALYSIS REPORT**

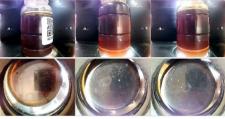




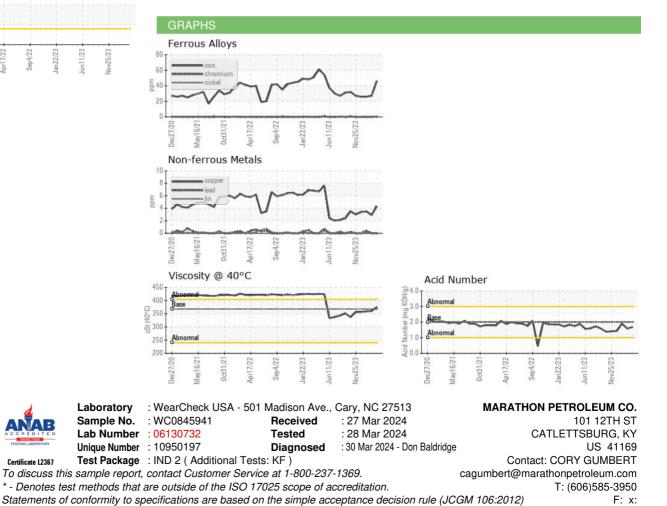


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	368	375	360	359
SAMPLE IMAGES	3	method	limit/base	current	history1	history2

Color



Bottom



Certificate L2367

E